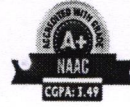




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**DEPARTMENT OF COMPUTER SCIENCE (UG)  
DBT STAR SPONSORED DEPARTMENT**



Class: I B.SC CSA

Date: 19.01.2026

The IT field is experiencing dynamic shifts, with strong growth in AI, Cloud, Cybersecurity, and Data Analytics driving innovation, especially in India, but also facing challenges like slower growth in traditional services, high attrition (though stabilizing), and global job cuts due to economic pressures, while overall spending and digital transformation remain strong globally, positioning for future AI readiness with new investments in data centers.

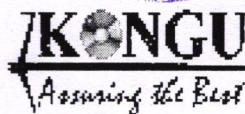
*Janani*  
19/1/26  
STAFF INCHARGE

Ms.S.M.Janani



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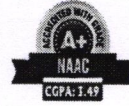
BHUVANA S



*P.M*  
19/1/26



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**DEPARTMENT OF COMPUTER SCIENCE (UG)**  
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*News World*

Class: I BSC CS B

Date: 19.01.2026

Today's top IT news features major AI advancements (Meta's new models, Samsung's 2nm chip), tech giants expanding services (Amazon Alexa on web, ChatGPT for music), and India-specific developments like AI summits, HCLTech's acquisition, and Tesla's EV expansion. Globally, there are also stories on child online safety (Apple CEO), cybersecurity risks (OpenAI), and regulatory challenges (TikTok ban, Meta antitrust).

*Sujanya*  
19/1/26  
STAFF INCHARGE

Ms.S.M.Janani



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SUBMITTED BY  
DHANUSHA S

*A.M.S*  
19/1/26



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## DEPARTMENT OF COMPUTER SCIENCE (UG) DBT STAR SPONSORED DEPARTMENT



*News World*

Class: 1 BSc (CS&DA)

Date: 19.01.2026

The global IT industry is undergoing a significant transformation driven by rapid advancements in artificial intelligence, cloud computing, and digital automation. In recent months, AI has become the central focus, with governments and organizations paying closer attention to regulation, ethics, and large-scale adoption. Several countries have started introducing AI governance frameworks to ensure responsible use, data security, and transparency, reflecting how deeply AI is now integrated into business and public systems.

In India, the IT sector is experiencing a mixed phase. While short-term growth has slowed due to reduced global tech spending and economic uncertainty in major markets like the US and Europe, the long-term outlook remains strong. Leading Indian IT companies such as TCS, Infosys, Wipro, and HCLTech are actively investing in generative AI platforms, cloud migration services, cybersecurity, and digital transformation projects. These companies are shifting from traditional outsourcing models toward high-value consulting and AI-driven solutions.

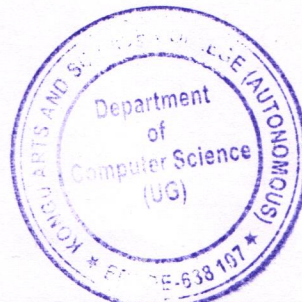
Another major development is India's push toward semiconductor manufacturing and hardware innovation. New semiconductor units and electronics manufacturing projects are being announced, aiming to reduce dependency on imports and strengthen the domestic tech ecosystem. This move is expected to create new opportunities for IT professionals, especially in embedded systems, chip design, and IoT integration.

Additionally, emerging technologies like data analytics, edge computing, 5G, and automation are reshaping enterprise operations across industries such as healthcare, finance, agriculture, and smart infrastructure. Startups are also playing a crucial role by developing innovative solutions in AI, fintech, edtech, and climate technology.

Overall, while the IT industry is navigating short-term challenges, it is positioned for strong recovery and growth over the next few years. Increased AI adoption, digital innovation, and government support are expected to drive demand, making the IT sector a key contributor to economic growth and technological progress.

*Sujana*  
*19/1/26*  
**STAFF INCHARGE**

Ms.S.M.JANANI



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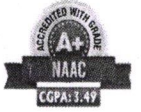
*D.M*  
*19/1/26*

**SUBMITTED BY**

Dhanusri U



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DEPARTMENT OF COMPUTER SCIENCE (UG)  
DBT STAR SPONSORED DEPARTMENT



*News World*

Class: II B.SC CS A

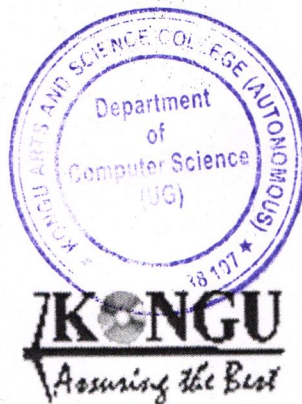
Date: 19.01.2026

## Samsung Teases Galaxy Tab S11 Series

Samsung has confirmed that its upcoming Galaxy Tab S11 lineup will debut later in 2025. The series will include premium and mid-range models, all integrated with improved AI features. Rumors suggest Samsung might remove Bluetooth functionality from the S Pen in favor of AI-based gesture controls, reflecting a major shift toward AI-first tablet ecosystems. Yes, the freebies have unlocked unprecedented scale – but they've also unlocked something even more coveted. A trove of behavioural and linguistic data unique to the Indian market. Many AI architects view this as a kind of linguistic terraforming – where tomorrow's general-purpose LLMs are being shaped with the learnings from millions of Indian users.

*Sujanya*  
19/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



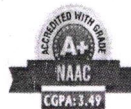
SUBMITTED BY

Madhan K

*M*  
19/1/26



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DEPARTMENT OF COMPUTER SCIENCE (UG)  
DBT STAR SPONSORED DEPARTMENT



News World

Class: II B.SC CS B

Date: 19.01.2026

## India's Tech Leap: BharatGPT Makes Its Debut

India has taken a significant stride in the global AI race with the launch of BharatGPT, the country's first multilingual generative AI platform developed by a consortium of top Indian institutes and tech firms. This snapshot of user adoption reframes the entire conversation around "free AI" in India. In the fall of 2025, Silicon Valley giants and nimble startups alike began showering Indian users with premium chatbot access at no cost – OpenAI with its year-long free ChatGPT Go access, Google with 18 months of Gemini AI Pro via the Jio network, and Perplexity with a free Pro tier for Airtel users. Yes, the freebies have unlocked unprecedented scale – but they've also unlocked something even more coveted. A trove of behavioural and linguistic data unique to the Indian market. Many AI architects view this as a kind of linguistic terraforming – where tomorrow's general-purpose LLMs are being shaped with the learnings from millions of Indian users.

*Janani*  
19/1/26  
STAFF INCHARGE

Ms.S.M.Janani



SUBMITTED BY

Kavin J

*R.M.S*  
19/1/26



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**DEPARTMENT OF COMPUTER SCIENCE (UG)**  
DBT STAR SPONSORED DEPARTMENT



Class: II BSC (CS&DA)

Date: 19.01.2026

**OpenAI: Enterprise users swap AI pilots for deep integrations**

According to OpenAI, enterprise AI has graduated from the sandbox and is now being used for daily operations with deep workflow integrations. New data from the company shows that firms are now assigning complex and multi-step workflows to models rather than simply asking for text summaries. The figures illustrate a hard change in how organisations deploy generative models. With OpenAI's platform now serving over 800 million users weekly, a "flywheel" effect is driving consumer familiarity into professional environments. The company's latest report notes that over a million business customers now use these tools, and the goal is now even deeper integration. This evolution presents two realities for decision-makers: productivity gains are concrete, but a growing divide between "frontier" adopters and the median enterprise suggests that value depends heavily on usage intensity.

*Sujanya*  
19/1/26  
STAFF INCHARGE

M.S.S.M. JANANI



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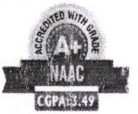
SUBMITTED BY

K.GAYATHRI

*P.N.*  
19/1/26



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*News World*

Class: II BSC CS A

Date: 19.01.2026

**HCLTech bags 10-year digital deal from New Zealand's Dunedin city**

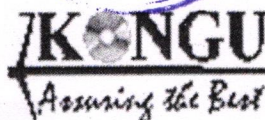
HCLTech has signed a 10-year strategic partnership with Dunedin City Council (DCC) to modernise and manage the New Zealand city's information technology services to drive digital transformation, better service delivery and community engagement, the Indian IT services major said on July 10, without sharing the financial details.

HCLTech will transform the council's IT services across cybersecurity, hybrid cloud, service management, IT asset management and network services, enhancing support, scalability and security, it said.

*Janani*  
19/1/26

**STAFF INCHARGE**

Ms.S.M.Janani



**SUBMITTED BY**

**Hari shankar.B**

*H.N.S*  
19/1/26



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**DEPARTMENT OF COMPUTER SCIENCE (UG)**  
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Class: III BSc CS 'B'

Date: 19.01.2026

*IT industry in India :*

*IT industry faces sluggish growth: Analysts - The Times of India India's IT industry is in a transformative phase, facing near-term pressure from global economic uncertainty, client cost-cutting, and the disruptive force of AI, leading to some "silent layoffs" and role restructuring towards digital skills (AI, cloud, cyber)*

*Global Slowdown: Weak client spending and macroeconomic uncertainty in key markets (US/EU) affect project timelines.*

*AI Disruption: Generative AI is reshaping roles, requiring upskilling and causing workforce adjustments (layoffs in traditional roles).*

*Janani*  
*19/1/26*  
STAFF INCHARGE

MS.S.M.JANANI



SUBMITTED BY

S ABINAYA

*S.M.*  
*19/1/26*



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Class: III B.SC. CS DA

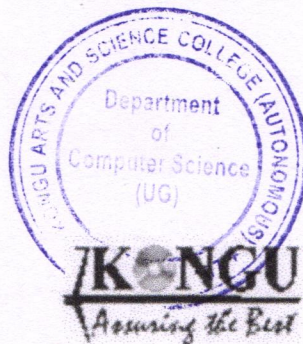
Date: 19.01.2026

## Cloud Computing in IT industry

Cloud computing plays a major role in the IT industry today, transforming the way businesses store, manage, and access data and applications. Instead of relying on physical servers, companies now use cloud platforms like Amazon Web Services (AWS), Microsoft Azure, and Google Cloud to run operations more efficiently, scale quickly, and reduce costs. The demand for cloud services is growing fast, especially as more organizations adopt remote work, data analytics, AI, and IoT technologies. Cloud also improves flexibility, allowing companies to adjust resources as needed without large upfront investments.

*Janani*  
19/1/26  
STAFF INCHARGE

Ms.S.M. JANANI



SUBMITTED BY

N.ABINAYA

*A.N*  
19/1/26



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Class: I BSC CS A

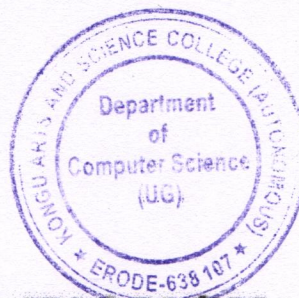
Date: 21.01.2026

Amazon faces major allegations after a recent Rolling Stone report linked clusters of rare cancers and miscarriages near its U.S. data centres to enormous use of water and nitrate-tainted wastewater. The company denies that its AWS (Amazon Web Services) facilities are responsible for long-standing local groundwater issues.

Meanwhile, India's southern states are seeing a surge of deals worth billions of dollars as global tech giants race to expand cloud infrastructure. Google signed an ₹87,500 crore agreement to build an AI hub in Visakhapatnam, its largest such investment in India, slated for completion between 2026 and 2030.

*Smyjanani*  
*21/1/26*  
**STAFF INCHARGE**

Ms.S.M.JANANI



**SUBMITTED BY  
DESHIKAT**

*A.M*  
*21/1/26*



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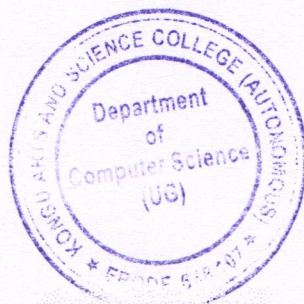
Class: I BSC CS B  
Date: 21.01.2026

Meta's outgoing chief artificial intelligence scientist Yann LeCun is holding early talks to raise 500 million euros (\$586.00 million) for a new startup - Published - December 19, 2025

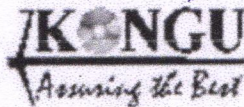
Meta's outgoing chief artificial intelligence scientist Yann LeCun is holding early talks to raise 500 million euros (\$586.00 million) for a new startup that would value the AI firm at about 3 billion euros ahead of its official launch, the Financial Times reported on Thursday.

*S. Janani*  
21/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY  
GOWRISH.E



*G. W. E*  
21/1/26



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Class: 1 BSC CS DA

Date: 21.01.2026

Losses in energy, auto and pharma shares dragged indices down, while gains in IT shares helped trim losses. Select buying in financials and metals also aided recovery in the pre-close session

Benchmark stock indices Sensex and Nifty closed lower for the fourth consecutive day on Thursday (December 18, 2025) amid a muted trend in global markets and uncertainty over a trade deal with the U.S.

*Smyjanani*  
21/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



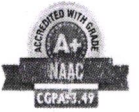
SUBMITTED BY

KANISHKA M

*A.M*  
21/1/26



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DBT STAR SPONSORED DEPARTMENT



*News World*

Class: II BSC CS A

Date: 21.01.2026

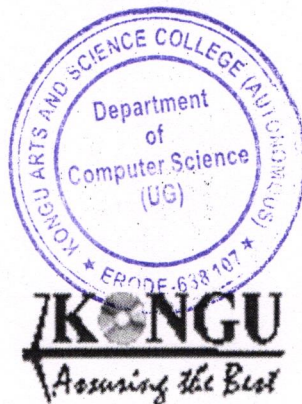
**TCS LAYOFFS SIGNAL AI SHAKEUP IN INDIAN IT SECTOR**

India's largest IT services company, Tata Consultancy Services (TCS), has announced a major workforce restructuring, laying off over 12,000 employees, primarily from middle and senior management. While TCS attributes the move to skill mismatches, industry experts believe this marks the beginning of a broader AI-driven transformation in the \$283 billion outsourcing sector

The layoffs come alongside plans to increase salaries for 80% of remaining staff, signaling a shift toward retaining AI-ready talent. As automation and generative AI tools become more integrated into software development, testing, and customer support, companies are rethinking traditional roles and investing in upskilling.

*S. Janani*  
21/1/26  
**STAFF INCHARGE**

Ms.S.M.JANANI



**SUBMITTED BY**

**Nitheesh M**

*P. M*  
21/1/26



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*News World*

Class: II BSC CS B

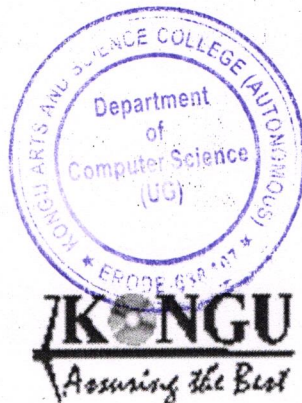
Date: 21.01.2026

## "DANGEROUS FANTASY" AI IN FIVE YEARS

The promise of AI-driven 70-80% productivity gains in five years, being made by IT companies to their clients, is an unsustainable and "dangerous bet" to make and is "in the realms of fantasy," Tech Mahindra CEO Mohit Joshi said, adding that his company is taking a more "realistic" approach to the biggest technology theme globally since dotcom. Yes, the freebies have unlocked unprecedented scale – but they've also unlocked something even more coveted. A trove of behavioural and linguistic data unique to the Indian market. Many AI architects view this as a kind of linguistic terraforming – where tomorrow's general-purpose LLMs are being shaped with the learnings from millions of Indian users.

*S. Janani*  
21/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

HARRISH.M

*H.M*  
21/1/26



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*News World*

Class: II B.SC CSDA

Date: 21.01.2026

## Quantum Computing: The Next Tech Tsunami

In a world where classical computing is hitting its limits, Quantum Computing has emerged as the next technological revolution. Unlike traditional bits, quantum bits (qubits) operate on principles of superposition and entanglement — enabling them to perform complex computations at speeds unimaginable just a decade ago.

Quantum computing, a transformative field that emerged from quantum mechanics and computer science, has gained immense attention for its potential to revolutionize computation. This paper aims to address the fundamentals of quantum computing and provide a comprehensive guide for both novices and experts in the field of quantum computing. Beginning with the foundational principles of quantum computing, we introduce readers to the fundamental concepts of qubits, superposition, entanglement, interference, and noise.

*S. Janani*  
21/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



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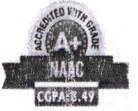
SUBMITTED BY

Kiruthik S

*K.S.*  
21/1/26



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DEPARTMENT OF COMPUTER SCIENCE (UG)  
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*News World*

Class: II B.SC CS A

Date: 21.01.2026

## Big Tech's Trillion-Dollar AI Race

Google, Amazon, and Meta are investing unprecedented amounts in AI infrastructure for 2025. Google plans to spend \$85 billion, Amazon \$100 billion, and Meta between \$64–72 billion. This has sparked concerns about environmental sustainability and legal issues, particularly surrounding the use of copyrighted content to train AI models. Meanwhile, Adobe takes a safer path by using only licensed and public-domain data to train its Firefly AI models, along with tools to track content authenticity.

*S. Janani*  
21/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



**KONGU**  
*Assuring the Best*

SUBMITTED BY

Karthic K S

*K. N. S.*  
21/1/26



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DBT STAR SPONSORED DEPARTMENT



Class: III-Bsc(CS)-B

Date: 21.01.2026

Wipro's latest news

**Strategic Collaboration:**Wipro has partnered with IISc and FSID to advance frontier technologies, including quantum computing, agentic AI, and secure digital infrastructure.

**Acquisition:**Wipro has completed the acquisition of HARMAN's Digital Transformation Solutions (DTS) business unit for \$375 million, enhancing its AI and engineering capabilities.

**Financial Performance:**Wipro's Q2FY26 profit rose 1.15% to Rs 3,246 crore, and revenue grew 1.7% to Rs 22,697 crore, supported by strong deal wins.

**Stock Price:**Wipro's current stock price is Rs 261.38, with a market capitalization of Rs 2.48 trillion.

*S. Janani*  
21/1/26  
**STAFF INCHARGE**

Ms.S.M.JANANI



**SUBMITTED BY**

S.ABHINAV

*S.M.*  
21/1/26



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Class: **III B.SC CSDA**

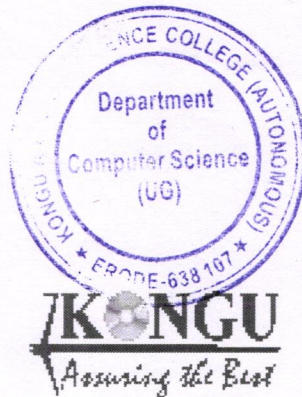
Date: **21.01.2026**

**US crypto industry cheers 2025 wins, but party may fizzle next year**

Dec 18 (Reuters) - After celebrating Donald Trump's second presidential term by swilling cocktails and partying to Snoop Dogg at a pre-inauguration event in January, the crypto industry went on to notch major legislative and regulatory victories this year. Among the industry's biggest wins under Trump's crypto-friendly second administration were the Securities and Exchange Commission's swift move to rescind stringent crypto accounting guidance and dismiss Biden-era lawsuits against Coinbase (COIN.O), opens new tab, Binance and others, as well as the passage of a landmark law creating federal rules for dollar-pegged crypto tokens. A top bank regulator also eased rules on banks' crypto dealings and conditionally approved bank licenses for crypto firms. Along with Trump's creation of a bitcoin stockpile and the SEC's approval of a raft of new crypto products, the changes together helped propel bitcoin to new peaks this year and pave the way for wider crypto adoption, sparking warnings from critics over potential investor and systemic risks.

*S. Janani*  
21/1/26  
**STAFF INCHARGE**

**M.S. S.M.JANANI**



**SUBMITTED BY**

**S. KOUSALYA**

*S. Kousalya*  
21/1/26



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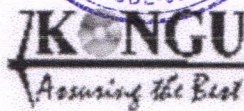
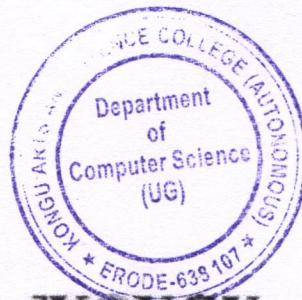
Date: 22.01.2026

Technology continues to evolve at an incredible pace, and the latest technology trends in 2026 show just how quickly the digital world is transforming. From agentic AI and micro LLMs to automation, robotics, and super apps, we're entering a year where intelligent systems become even more integrated into everyday work and life.

Alongside these shifts, innovations in 5G, quantum computing, blockchain, and extended reality are gaining momentum. Each of these trends has the potential to reshape industries, influence career paths, and change the way businesses operate. Keeping up with these developments is essential if you want to stay competitive in a fast-moving market.

S.M. Janani  
22/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

DIVITH . N

D.M.  
22/01/26



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**DEPARTMENT OF COMPUTER SCIENCE (UG)  
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*News World*

Class: **B**-Bsc(CS)-B

Date: 22.01.2026

the top 5 leading IT companies in India

**1.Tata Consultancy Services (TCS):**With a market capitalization of ₹11,25,948.84 crore, TCS is the largest IT company in India, offering services in AI, cloud computing, and digital transformation.

**2.Infosys:**Infosys has a market capitalization of ₹6,25,569.76 crore and is known for its digital services, including cloud, big data, and AI.

**3.HCL Technologies:**HCL Tech has a market capitalization of ₹4,33,345.18 crore and specializes in engineering, R&D services, and innovative intellectual property partnerships.

**4.Wipro:**Wipro's market capitalization is ₹2,57,019.09 crore, with a strong presence in AI, cybersecurity, and digital transformation services.

**5.LTIMindtree:**LTIMindtree has a market capitalization of ₹1,72,260.25 crore and offers services in digital transformation, cloud, and AI.

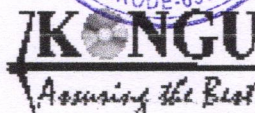
*S.M.Janani*  
22/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

S.PRAVEENKUMAR



*S. M. Janani*  
22/1/26



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**DEPARTMENT OF COMPUTER SCIENCE (UG)**  
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Class: I B.SC CS DA

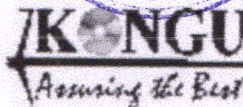
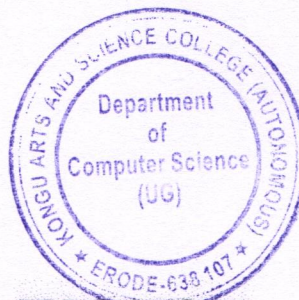
Date: 22.01.2026

"Brain rot", which was named Oxford's Word of the Year for 2024, refers to the perceived decline of mental sharpness caused by consuming large amounts of shallow or low-effort online content.

There's a layer of irony here: the '67' meme thrives precisely because it lacks a universally accepted meaning. Its humour depends on being out of place. People often drop it into conversations where it clearly doesn't belong, leaning into sarcasm and irony rather than logic.

*S. Janani*  
22/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

KAMESH N

*P.N*  
22/1/26



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Class: BSC CSA

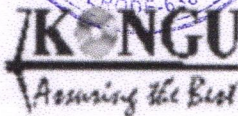
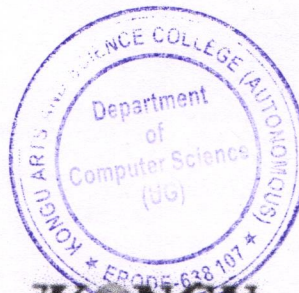
Date: 22.01.2026

AI advancements (Xiaomi's new model, Nvidia's open-source push, Google's experimental AI), Big Tech maneuvers (ByteDance's TikTok control deal, Microsoft's India AI investment, Oracle's revenue dip), cybersecurity (OpenAI warning, nation-state attacks), and hardware (Samsung's foldable, Google's rival to Nvidia chips). Major themes include AI's growing impact on jobs/security, chip competition, and evolving online safety regulations.

*S. M. Janani*  
22/1/26

STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

JAYASHREE S

*A.M.S*  
*22/1/26*



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*News World*

Class: II-Bsc(CS)-B

Date: 22.01.2026

HCL salary package

**Fresher Salaries**

Software Engineer: ₹5 lakhs per annum

Information Technologist: ₹4 lakhs per annum

**Experienced Professionals**

Technical Lead: ₹16.6 lakhs to ₹30 lakhs per annum

Senior Manager: ₹21 lakhs per annum

General Manager: ₹33 lakhs per annum

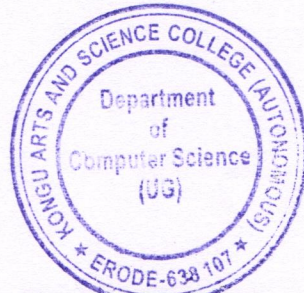
**Highest Paying Jobs**

Product Marketing Manager: ₹66 lakhs per annum

Vice President: ₹50 lakhs per annum.

*S.M. Janani*  
22/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



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SUBMITTED BY

**R. PRAVEENKUMAR**

*R. Praveen Kumar*  
22/1/26



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Class: **II BSC CSDA**

Date: **22.01.2026**

AI advancements (Xiaomi's new model, Nvidia's open-source push, Google's experimental AI), Big Tech maneuvers (ByteDance's TikTok control deal, Microsoft's India AI investment, Oracle's revenue dip), cybersecurity (OpenAI warning, nation-state attacks), and hardware (Samsung's foldable, Google's rival to Nvidia chips). Major themes include AI's growing impact on jobs/security, chip competition, and evolving online safety regulations.

*S.M. Janani*  
*22/1/26*  
**STAFF INCHARGE**

**Ms.S.M.JANANI**



**SUBMITTED BY**

**ASHIGHA K S**

*A.M.*  
*22/1/26*



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**DEPARTMENT OF COMPUTER SCIENCE (UG)**  
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Class: III-Bsc(CS)-B

Date: 22.01.2026

TCS (Tata Consultancy Services) uses a selection methods

1. Online Application: Candidates apply online through the TCS career portal, uploading their resume and filling out basic details.
2. Talent Acquisition Platform (TAP): TCS uses the TAP platform for initial screening, assessments, and evaluations.
3. Aptitude Test: Candidates take an online aptitude test, which includes sections on verbal ability, logical reasoning, and quantitative aptitude.
4. Technical Test: Shortlisted candidates take a technical test, assessing their programming skills, data structures, algorithms, and problem-solving abilities.
5. Coding Challenge: Some candidates may be invited for a coding challenge, evaluating their coding skills and problem-solving approach.
6. Virtual Interview: Candidates who clear the previous stages participate in a virtual interview, assessing their communication skills, technical knowledge, and fit for the role.
7. HR Interview: The final stage involves an HR interview, focusing on the candidate's personality, motivation, and cultural fit.

*Smyarani*  
22/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

P.K.NANDHINI

*P.K.Nandhini*



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(AUTONOMOUS)



**DEPARTMENT OF COMPUTER SCIENCE (UG)**  
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Class: III-Bsc(CS)-B

Date: 22.01.2026

salary packages for Wipro and TCS

**Wipro Salary Packages**

Average salary: ₹19.7 lakhs per year, Fresher salary: ₹1.2 Lakh to ₹20

Lakhs per year Project Engineer: ₹3.2 Lakhs to ₹7.5 Lakhs per year

Senior Software Engineer: ₹8.5 Lakhs to ₹19.5 Lakhs per year

Technical Lead: ₹16.6 Lakhs to ₹30 Lakhs per year, Vice President (VP):

₹59.7 Lakhs to ₹1.1 Crore per year

**TCS Salary Packages**

Software Engineer: ₹5,34,592 per year

Senior Software Engineer: ₹9,66,456 per year, Analyst: ₹5,75,467 per year

Consultant: ₹11,93,318 per year, Technical Lead: ₹12,57,280 per year.

Please note that these salary packages may vary based on experience,

location, and other factors.

*S.M.Janani*  
22/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



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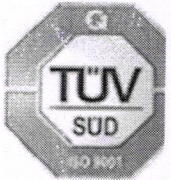
SUBMITTED BY

S.PRAVEENKUMAR

*S.P.*  
22/1/26



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*News World*

Class: III-B.Sc. CS with DA

Date: 22.01.2026

**AUTONOMOUS CAR**

An autonomous car is a vehicle capable of sensing its environment and operating without human involvement. A human passenger is not required to take control of the vehicle at any time, nor is a human passenger required to be present in the vehicle at all. An autonomous car can go anywhere a traditional car goes and do everything that an experienced human driver does.

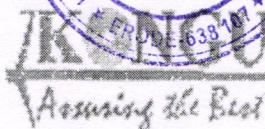
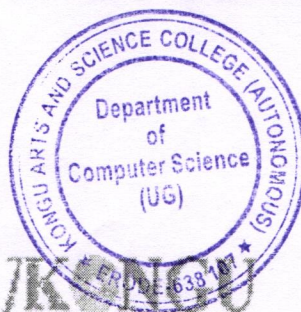
Autonomous cars create and maintain a map of their surroundings based on a variety of sensors situated in different parts of the vehicle.. Lidar (light detection and ranging) sensors bounce pulses of light off the car's surroundings to measure distances, detect road edges, and identify lane markings.



*S. Janani*  
*22/1/26*

**STAFF INCHARGE:**

**Ms.S.M.JANANI**



**SUBMITTED BY**

**DHANUSRI B**

*D.M.*  
*22/1/26*



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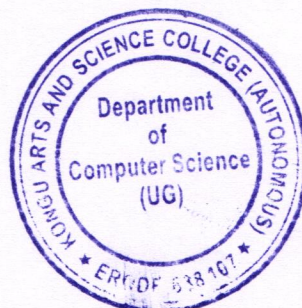
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## Penetration Testing

Penetration testing involves ethical hacking to identify security weaknesses. Security experts simulate cyber attacks to test system defenses. It helps organizations improve cybersecurity posture. Regular testing reduces risk of data breaches. Companies invest in penetration testing to meet compliance standards. Skilled professionals analyze vulnerabilities and suggest improvements. It is essential for modern cybersecurity strategies.

Janani  
23/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

M. Abirami

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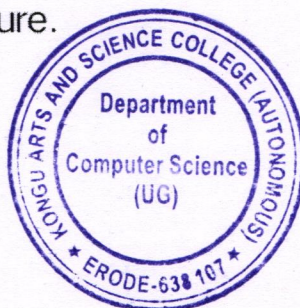
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## Ethical Hacking Careers

Ethical hacking involves legally testing computer systems to identify security weaknesses. Ethical hackers use the same techniques as cybercriminals but with permission from organizations. Their goal is to strengthen security systems and prevent data breaches. With increasing cyber threats, demand for certified ethical hackers is growing rapidly. Professionals obtain certifications such as CEH and CISSP to build credibility. Ethical hacking offers strong career opportunities in banking, government, and IT industries. Continuous learning is important in this field due to evolving attack methods. Ethical hacking plays a vital role in protecting digital infrastructure.

*Janani*  
23/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*Monika.S*



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(AUTONOMOUS)



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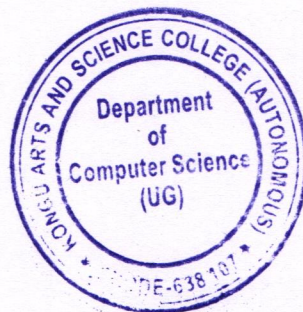
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**IT Helpdesk Automation**

IT helpdesk automation uses software to manage support requests efficiently. Chatbots and ticketing systems reduce manual workload. Automation improves response time and customer satisfaction. Organizations implement AI-based support systems. It reduces operational costs. However, complex issues still require human expertise. Helpdesk automation enhances service quality in modern IT operations.

*S. Janani*  
23/1/26  
**STAFF INCHARGE**

**Ms.S.M.JANANI.**



**SUBMITTED BY**  
*Rerathi .D*





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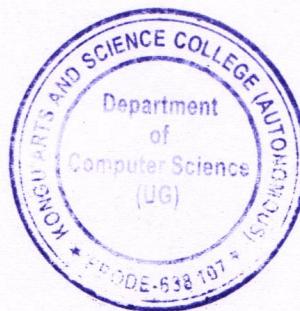
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**Digital Marketing Technology**

Digital marketing technology uses analytics and AI tools. Businesses target customers through online platforms. Automation improves campaign management. Data analysis enhances customer engagement. Social media tools support marketing strategies. Digital marketing continues to expand globally.

*Janani*  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*K. Abinaya*





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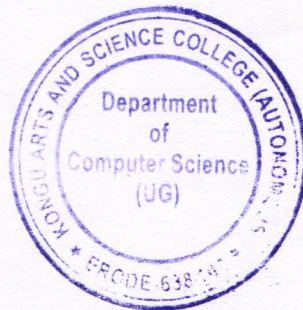
Date: *23.01.2026*

### Cybersecurity

Cybersecurity focuses on protecting computer systems, networks, and data from cyber threats. With the rapid growth of internet usage, cyber attacks such as phishing, ransomware, and data breaches have increased. Recent developments include AI-based threat detection and advanced encryption techniques. Organizations are implementing multi-factor authentication and zero-trust security models to enhance protection.

*Janani*  
*23/1/26*  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*S. Kavya*

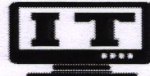




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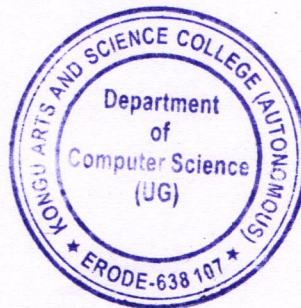
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### Tech Startups and Innovation Trends

Tech startups focus on innovative digital solutions. They drive economic growth. Investors support emerging technologies. Startups adopt agile development methods. Innovation improves competitiveness. Startup ecosystems continue to expand globally.

*Sujana*  
*23/1/26*  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*Sowmiya D.V*

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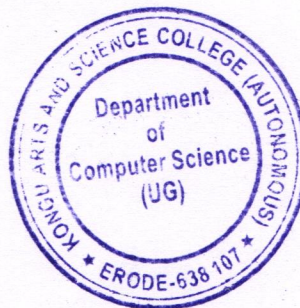
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**Digital Supply Chain Management**

Digital supply chains use technology for tracking goods. Real-time data improves logistics. Automation reduces delays. Blockchain enhances transparency. Companies adopt digital tracking systems. Supply chain digitization increases efficiency.

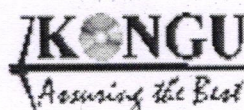
*Janani*  
23/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*J.R. Kailash*





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Artificial General Intelligence (AGI)

AGI aims to create machines with human-like intelligence. It goes beyond narrow AI tasks. Researchers explore cognitive computing models. Ethical concerns are significant. AGI development remains experimental. It represents future AI possibilities.

*Srinivas*  
23/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*K. Indhu Sri*





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### Data Warehousing

Data warehousing stores large volumes of structured data for analysis. It supports business intelligence and reporting systems. Organizations use data warehouses for decision-making and forecasting. Cloud-based warehouses improve scalability and accessibility. Data integration and quality management are important factors. Recent developments enhance processing speed and storage efficiency. Data warehousing remains crucial for enterprise analytics.

*Janani*  
23/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*V. Sbiram*





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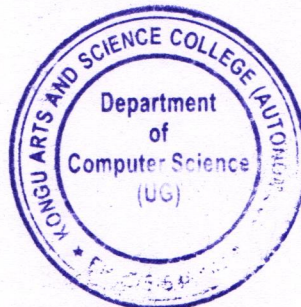
Date: *24.01.2026*

## Containerization (Docker & Kubernetes)

Containerization packages software applications with their dependencies. Docker and Kubernetes are popular container tools. They improve scalability and deployment efficiency. Organizations use containers for cloud-native development. Containers reduce compatibility issues. Kubernetes manages container orchestration automatically. This technology supports DevOps practices. Containerization enhances software reliability and performance.

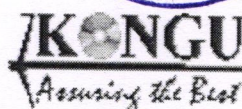
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STAFF INCHARGE

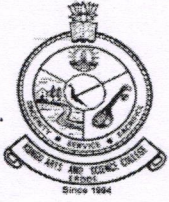
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*V. Boobase*





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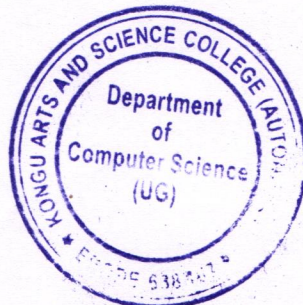
Date: 24.01.2026

### IT Service Management (ITSM)

IT Service Management focuses on delivering efficient IT services to organizations. It includes processes like incident management and service requests. Frameworks such as ITIL guide ITSM practices. It improves service quality and customer satisfaction. Automation tools enhance efficiency. Organizations adopt ITSM to streamline operations. ITSM ensures alignment between IT services and business goals.

*S. Janani*  
24/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



**KONGU**

SUBMITTED BY

*Oviya.M*



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Date: *24. 01. 2026*

### Data Visualization Tools

Data visualization tools convert complex data into charts and graphs. They help users understand information easily. Businesses use tools like dashboards for decision-making. Visualization improves communication of insights. Real-time analytics enhances accuracy. Proper design ensures clarity and usability. Data visualization supports business intelligence and reporting

*Janani*  
*24/1/26*  
STAFF INCHARGE

Ms. S. M. JANANI



**KONGU**  
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SUBMITTED BY

*Subasree.S*



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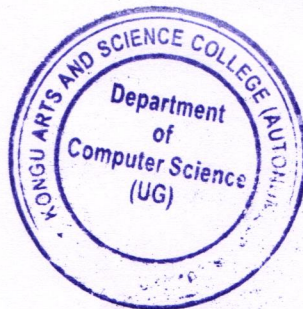
Date: 24.01.2020

E-Learning Management Systems

E-learning systems deliver online education efficiently. They manage courses and assessments. Institutions adopt digital platforms widely. Interactive tools enhance learning experience. Security ensures data protection. E-learning supports remote education globally.

*Sanjana*  
*24/1/20*  
STAFF INCHARGE

Ms.S.M.JANANI



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SUBMITTED BY

*S.A. Gobika*



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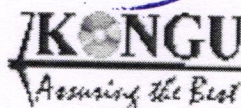
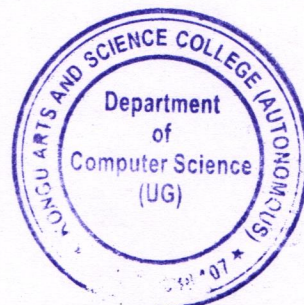
Date: 24.01.2026

Network Security Protocols.

Network security protocols protect data during transmission. Examples include SSL and VPN. They ensure encrypted communication. Organizations implement strong protocols. Continuous updates prevent vulnerabilities. Network security remains essential for safe communication.

*Smyjanani*  
29/1/26  
STAFF INCHARGE

Ms.S.M.JANANI

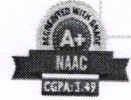


SUBMITTED BY

*C.S. Mohith*



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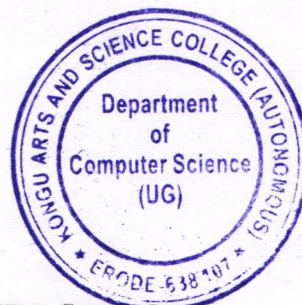
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### Cyber Insurance

Cyber insurance protects organizations from financial losses due to cyber attacks. Policies cover data breaches and ransomware incidents. Companies invest in insurance for risk management. Premiums depend on security measures. Cyber insurance supports financial stability.

*Sanjana*  
24/1/26  
STAFF INCHARGE

Ms. S.M. JANANI



SUBMITTED BY

*B. Swetha*





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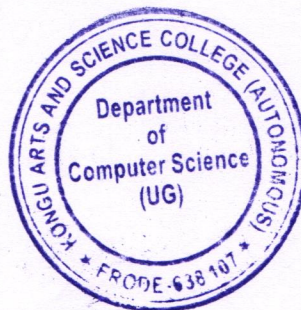
Date: 24.01.2026

AI-Based Fraud Detection

AI-based fraud detection analyzes transaction patterns. It identifies suspicious activities quickly. Banks use AI for financial security. Machine learning improves detection accuracy. Real-time alerts prevent losses. Fraud detection systems enhance trust.

*S. Janani*  
24/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

Manoj.S

**KONGU**  
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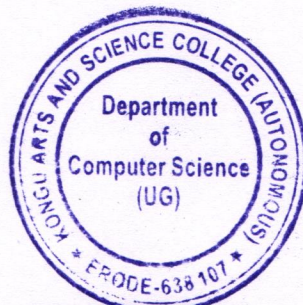
Date: 24.01.26

Space Technology and IT

Space technology relies on advanced IT systems. Satellites use AI and data analytics. Space missions depend on secure communication. IT improves navigation and monitoring. Private companies invest in space innovation. Technology drives space exploration forward.

*Sujana*  
24/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



**KONGU**  
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SUBMITTED BY

*V. Pradeepa*



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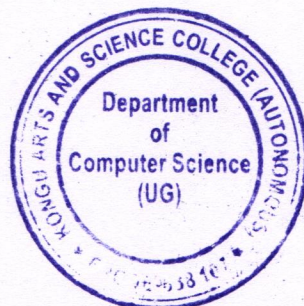
Date: 24.01.2026

### Recommender Systems

Recommender systems suggest products, services, or content based on user preferences. They use machine learning algorithms to analyze behavior patterns. Online platforms like e-commerce and streaming services rely heavily on recommenders. These systems improve customer engagement and satisfaction. Privacy protection is essential when handling user data. Continuous improvements enhance recommendation accuracy. Recommender systems play a major role in digital personalization.

*Sujana*  
24/1/26  
STAFF INCHARGE

Ms. S. M. JANANI



**KONGU**  
Assuring the Best

SUBMITTED BY

M. R. Kavın



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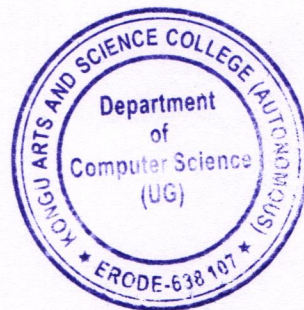
Date: 27.01.2026

## API Economy

The API economy refers to the use of application programming interfaces to connect systems and services. APIs enable software applications to communicate effectively. Companies use APIs to expand digital services and partnerships. It supports innovation and integration. Many startups build entire platforms around APIs. Security and performance optimization are key concerns. APIs play a central role in digital transformation strategies.

S. Janani  
27/1/26  
STAFF INCHARGE

Ms. S.M. JANANI



SUBMITTED BY

E. Divyasree

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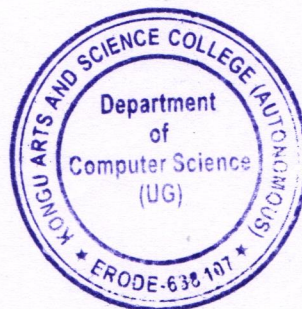
Date: 27.01.2026

### Dark Web Monitoring

Dark web monitoring involves tracking illegal activities on hidden internet networks. Organizations use it to detect stolen data, leaked credentials, and cyber threats. Security teams monitor dark web forums to prevent potential attacks. Advanced tools scan suspicious activities and alert companies. This helps reduce financial and reputational damage. Governments also use monitoring to fight cybercrime. Although it improves security, privacy concerns must be handled carefully. Dark web monitoring plays an important role in proactive cybersecurity strategies.

*S. Janani*  
27/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*Nithiya.R*

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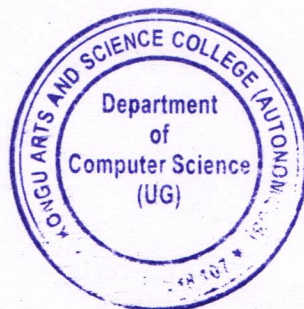
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**Computer Vision Applications**

Computer vision enables machines to interpret images and videos. It is used in facial recognition, surveillance, and medical imaging. AI improves object detection accuracy. Industries adopt computer vision for automation. Privacy concerns must be managed carefully. The technology enhances safety and monitoring systems.

*Sanjani 27/1/26*  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*K. Vaarshini*

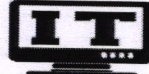




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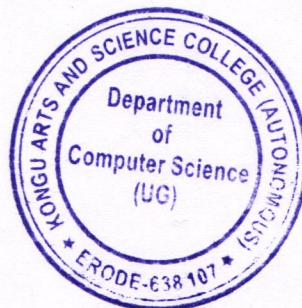
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**IT Project Management Tools**

IT project management tools organize tasks and resources. They improve team collaboration. Software like tracking systems enhance productivity. Real-time monitoring ensures deadlines. Automation reduces manual effort. Project tools support efficient IT operations.

*S.M. Janani*  
27/1/26  
STAFF INCHARGE

Ms. S.M. JANANI



SUBMITTED BY

*S. Jeevika*





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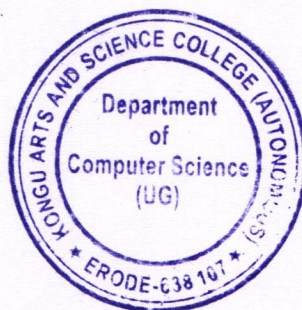
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### Zero-Day Vulnerabilities

Zero-day vulnerabilities are unknown security flaws. Hackers exploit them before fixes are available. Security teams monitor threats actively. Quick patching reduces risk. Organizations invest in advanced detection systems. Managing zero-day risks is crucial in cybersecurity.

*S. Janani*  
*27/1/26*  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*R. Preethe*





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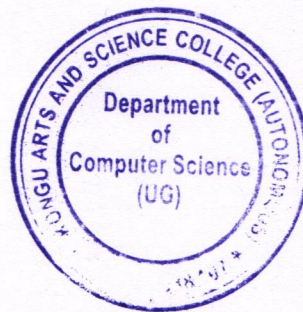
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Green Data Centers

Green data centers reduce energy consumption. They use renewable energy sources. Efficient cooling systems lower carbon footprint. Companies focus on sustainability. Environmental regulations encourage eco-friendly practices. Green data centers support sustainable IT growth.

*Janani*  
27/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

A. Varshali





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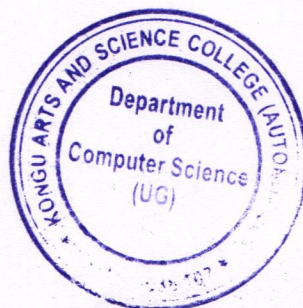
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### Robotics Process Optimization

Robotics process optimization improves business operations. Robots perform repetitive tasks efficiently. Automation reduces errors. Industries use robotics in manufacturing. Continuous improvements enhance productivity. Robotics supports operational excellence.

*Sujavani*  
27/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*G.V. Parithora*

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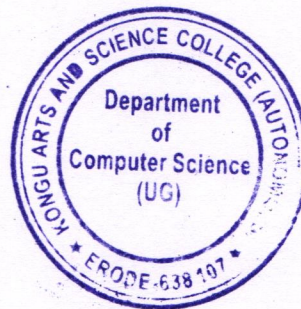
Date: *27.01.2026*

### Smart Grid Technology

Smart grid technology modernizes electricity networks using digital communication systems. It monitors energy usage and improves power distribution efficiency. Smart grids integrate renewable energy sources effectively. Consumers benefit from real-time energy monitoring and reduced costs. Recent developments focus on cybersecurity protection for grid systems. Smart grids enhance sustainability and reliability. They play an important role in building energy-efficient infrastructure.

*S. Janani*  
*27/1/26*  
STAFF INCHARGE

Ms. S. M. JANANI



SUBMITTED BY

*S. Pranav*

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Class: III BSc(CS&DA)

Date: 27.01.2026

Autonomous Drones Technology

Autonomous drones operate without direct human control using sensors and AI. They are used in agriculture, surveillance, delivery services, and disaster management. Drones collect real-time data and perform tasks efficiently. Recent innovations focus on longer battery life and improved navigation systems. Regulatory frameworks ensure safe drone operations. Security concerns include unauthorized usage and privacy risks. Autonomous drone technology is expanding rapidly across industries.

*S. Janani*  
27/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*D. Subasi*





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## Quantum Cryptography

Quantum cryptography is an advanced security technology based on quantum mechanics principles. It uses quantum key distribution (QKD) to create highly secure communication channels. Unlike traditional encryption, quantum cryptography detects any attempt to intercept data. Governments and research institutions are investing heavily in this technology to protect sensitive information. It is considered future-proof against quantum computer attacks. Although still in development stages, it promises unbreakable encryption. As cyber threats grow more complex, quantum cryptography may become essential for banking, defense, and secure communications in the digital age.

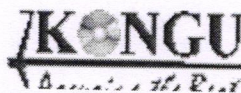
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28/1/24  
STAFF INCHARGE

Ms. S. M. JANANI



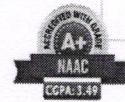
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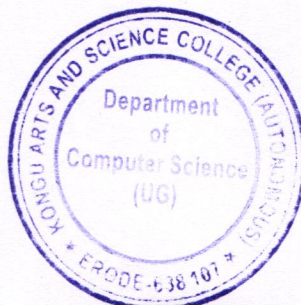
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**FinTech Innovations**

FinTech combines finance and technology to improve financial services. It includes digital payments, online banking, and cryptocurrency platforms. FinTech increases financial inclusion and convenience. Recent trends highlight AI-based credit scoring and blockchain transactions. Security and regulatory compliance are key challenges. FinTech startups are reshaping traditional banking models. The sector continues to grow rapidly worldwide.

*Janani*  
28/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



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SUBMITTED BY

*M. Kevin*



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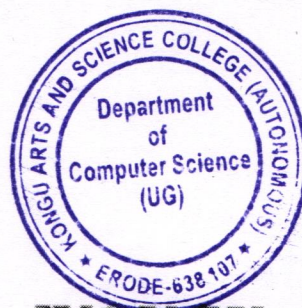
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**Digital Ethics in Technology**

Digital ethics ensures responsible technology usage. It addresses privacy and fairness concerns. Organizations develop ethical guidelines. Transparency builds user trust. Ethical practices promote sustainable innovation.

*S. Janani*  
*28/1/26*  
STAFF INCHARGE

Ms.S.M.JANANI



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SUBMITTED BY

*Navi Ka.s*



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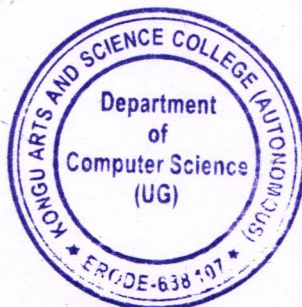
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**Digital Accessibility**

Digital accessibility ensures technology is usable by everyone. It supports people with disabilities. Features include screen readers and voice navigation. Inclusive design improves user experience. Governments promote accessibility standards. Digital inclusion enhances equal opportunities.

*Sanjani*  
*28/1/26*  
**STAFF INCHARGE**

Ms.S.M.JANANI



**SUBMITTED BY**

*S. Sanjay*

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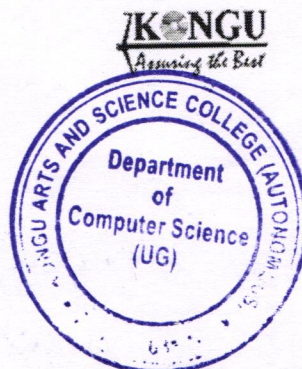
Date: 28.01.26

## **Latest Windows 11 Update Troubles — January 2026 Security Patch Issues**

Here's the current big story about Windows 11 from the tech world:

⚠ Microsoft's January 2026 security update (KB5074109) — released on January 13, 2026 — was meant to deliver fixes for over 100 security flaws, but it has instead caused widespread problems for many users and IT admins.

*Ms. S. M. Janani*  
28/1/26  
STAFF INCHARGE  
MS.S.M.JANANI



SUBMITTED BY  
MUTHUALAZAI.M



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News World

Class: I. Bsc (CS&DA)

Date: 28.01.2026

Speech-to-Text Technology

Speech-to-text converts spoken words into written text. It improves accessibility and productivity. Businesses use it in transcription services. AI advancements improve language recognition. Background noise handling is improving. It supports education and communication. Speech-to-text continues to evolve rapidly.

*S. Janani*  
28/1/26  
STAFF INCHARGE

Ms. S.M. JANANI



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*S. Santhosh*



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News World

Class: I Bsc(CS)B

Date: 28.01.2026

### Multi-Cloud Strategy

A multi-cloud strategy uses services from multiple cloud providers. Organizations adopt it to avoid dependency on a single vendor. It improves flexibility, reliability, and performance. Businesses can choose the best services from different platforms. However, managing multiple clouds requires strong expertise. Security and integration challenges must be addressed properly. Multi-cloud adoption is increasing globally. It supports digital transformation and business continuity.

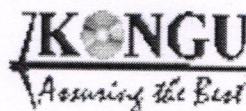
*S. Janani*  
28/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



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*Logith M*





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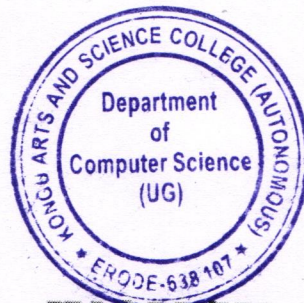
Date: 28.01.2026

## AI in Robotics

AI in robotics allows machines to perform complex tasks autonomously. Robots equipped with AI can learn from data and adapt to environments. Industries use AI robots in manufacturing, healthcare, and logistics. They improve efficiency, reduce human error, and enhance safety. Recent advancements include collaborative robots working alongside humans. Ethical concerns involve job displacement and responsible usage. Continuous research improves robotic intelligence and mobility. AI-powered robotics is shaping the future of automation and industrial development.

*Smyjanani*  
28/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



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SUBMITTED BY

*M.P. Kaviya*



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*News World*

Class: II B.SC.CS-B

Date: 29.01.2026

**LATEST IT NEWS ABOUT TCS:-**

Q2 Results 2025: TCS reported a 1% YoY increase in net profit to ₹12,075 crore, with revenue growing 2% to ₹65,799 crore.

AI Push: TCS's annualised AI revenue is around \$1.5 billion, with plans to invest \$6-7 billion in a sovereign AI data centre.

Job Cuts and Hires: TCS has "released" 6,000 employees, while planning to create 5,000 new jobs in the UK over the next three years.

Partnerships: TCS has partnered with Microsoft to deploy over 50,000 Copilot licenses and acquired Coastal Cloud for \$700 million.

Stock Performance: TCS shares are trading at ₹3,217.8, with a 1.96% gain, and a market valuation of ₹11,71,862.37 crore .

*S. Janani*  
29/1/26  
**STAFF INCHARGE**

Ms.S.M.JANANI



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K.GOWSHIGAA**

*P.M.*  
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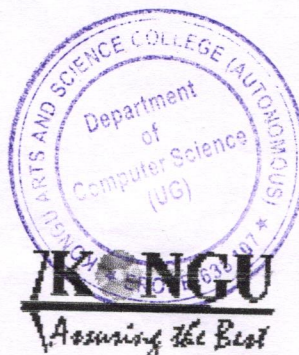
Date: 29.01.2026

**OpenAI: Enterprise users swap AI pilots for deep integrations**

According to OpenAI, enterprise AI has graduated from the sandbox and is now being used for daily operations with deep workflow integrations. New data from the company shows that firms are now assigning complex and multi-step workflows to models rather than simply asking for text summaries. The figures illustrate a hard change in how organisations deploy generative models. With OpenAI's platform now serving over 800 million users weekly, a "flywheel" effect is driving consumer familiarity into professional environments. The company's latest report notes that over a million business customers now use these tools, and the goal is now even deeper integration. This evolution presents two realities for decision-makers: productivity gains are concrete, but a growing divide between "frontier" adopters and the median enterprise suggests that value depends heavily on usage intensity.

*Sanjana*  
29/1/26  
**STAFF INCHARGE**

S.M. JANANI



**SUBMITTED BY**

**VARSHALIA**

*A.N*  
29/1/26



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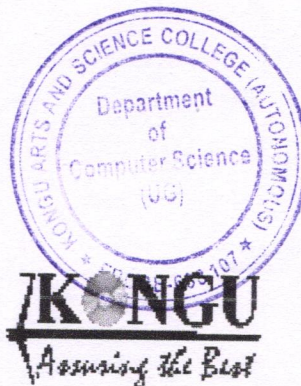
Date: 29.01.2026

**Apple is turning Siri into an AI**

Apple is planning a big Siri overhaul that will transform the voice assistant into an AI chatbot built directly into its iPhone and Mac, according to Bloomberg reporter Mark Gurman. The update is reportedly coming later this year and will replace the existing Siri interface, allowing users to interact with the assistant by both typing and talking, similar to the chatbots available from Google, OpenAI, Anthropic, and others.

*Sujanani*  
29/1/26

**STAFF INCHARGE**  
Ms.S.M.JANANI



**SUBMITTED BY**  
HARSMITHA.S.T

*A.M*  
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Class: III BSC CS A

Date: 29.01.2026

**NVIDIA's "Sovereign AI" for India**

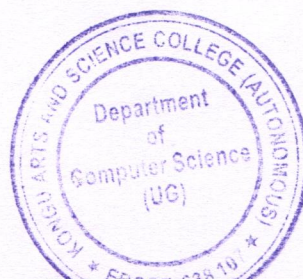
Just as Microsoft is focusing on cloud, NVIDIA is partnering with Indian giants like Reliance Industries and Tata Group to build AI supercomputing infrastructure.

**The Goal:** To build a large-scale AI infrastructure in India that is 10 times more powerful than India's fastest supercomputer today.

**The Impact:** This allows Indian startups and researchers to build their own "Large Language Models" (like ChatGPT but in Indian languages) without relying on Western servers.

*S. Janani*  
29/1/26  
**STAFF INCHARGE**

Ms.S.M.JANANI



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**DHARSHAN A R**

*P.M.*  
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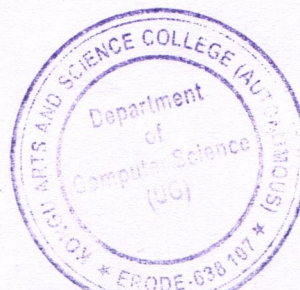
## Zoho Celebrates Milestone

Zoho has been making headlines in the IT world with several significant developments. Recently, the company integrated ChatGPT with Zia to enhance its Generative AI capabilities, aiming to boost small business user experience. Additionally, Zoho launched Trident, a unified communications platform designed to help firms boost productivity and collaboration. This move marks Zoho's entry into the unified communications market, providing businesses with a comprehensive pla

*Janani*  
29/1/26

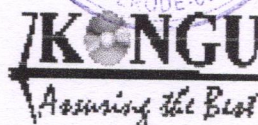
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*P.M.J*  
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Date: 29.01.2026

**Latest updates about tcs**

Financial Updates: TCS reported a 1% YoY increase in net profit to ₹12,075 crore, with revenue growing 2% to ₹65,799 crore.

Job Cuts and Hires: TCS has "released" 6,000 employees and plans to create 5,000 new jobs in the UK over the next three years.

Microsoft Partnership: TCS has partnered with Microsoft to deploy over 50,000 Copilot licenses and accelerate agentic AI adoption .

*Sujanani*  
*29/1/26*  
**STAFF INCHARGE**

Ms.S.M.JANANI



**SUBMITTED BY**  
**HARIHARAN V**

*H.M.V*  
*29/1/26*



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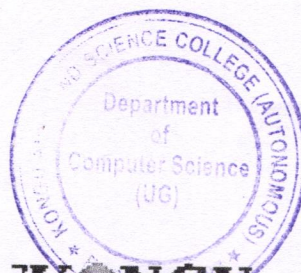
Accenture's stock is currently trading at \$272.71, down 4.72% from the previous session, and is in a corrective phase. However, the company has reported strong Q1 FY26 results, with revenue reaching \$18.7 billion, surpassing analyst estimates. This growth is driven by robust demand for AI-driven IT services, with bookings from AI-related projects increasing to \$1.8 billion in Q4 FY25. <sup>1 2 3</sup>

### \*Key Highlights:\*

- Revenue Growth: 6% YoY increase in Q1 revenue
- AI Bookings: \$1.8 billion in Q4

*Sujanani*  
29/1/26  
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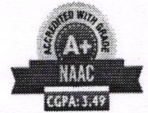
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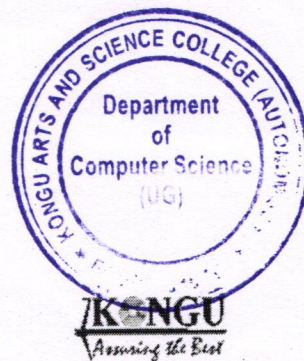


Class II BSC CS A

Date: 3.01.26

## Vention Raises \$110M for AI in Manufacturing

Vention — a company focused on AI deployment in physical manufacturing — has secured US \$110 million ( $\approx$  CAD 150 million) in funding to accelerate global adoption of AI tools in factories and industrial production lines. This supports the move toward smarter, autonomous manufacturing.



*Janani*  
3/1/26  
STAFF INCHARGE

MS.S.M.JANANI

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MONIKA.S



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Class: II BSC (CS) B

Date: 31.01.2026

**Cloud Backup Solutions**

Cloud backup stores data securely online. It protects against hardware failure. Businesses rely on automated backups. Encryption ensures data safety. Cloud recovery improves business continuity. Backup solutions are essential for data protection.

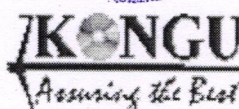
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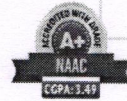
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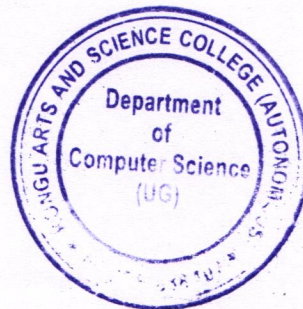
Date: **31.01.2026**

**IT Disaster Recovery Planning**

Disaster recovery planning prepares organizations for emergencies. It ensures data backup and system restoration. Businesses create recovery strategies. Regular testing improves readiness. Quick recovery minimizes downtime. Disaster planning protects business continuity.

*Ms. S. M. Janani*  
**STAFF INCHARGE**

Ms. S. M. JANANI



**SUBMITTED BY**

*A. Sandhiya*





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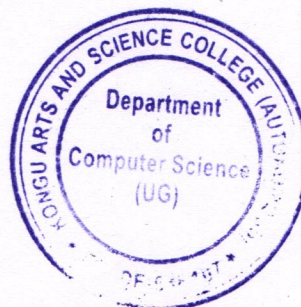
**IT Infrastructure Modernization**

Infrastructure modernization upgrades legacy systems. It improves performance and security. Cloud adoption supports modernization.

Organizations invest in digital upgrades. Modern infrastructure enhances efficiency.

*S. Janani*  
31/1/26  
**STAFF INCHARGE**

Ms.S.M.JANANI



**SUBMITTED BY**

V. Kishore

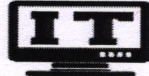




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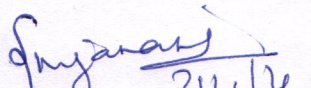
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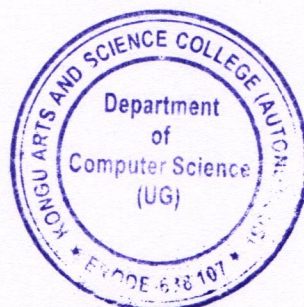
Date: 31.01.2026

### HealthTech Solutions

HealthTech uses technology to improve healthcare services. It includes telemedicine, wearable devices, and AI diagnostics. Recent IT news highlights remote patient monitoring systems. HealthTech increases accessibility and reduces hospital workload. Data privacy and compliance remain important concerns. Innovations enhance medical accuracy and efficiency. HealthTech is transforming healthcare delivery systems globally.

  
STAFF INCHARGE

Ms.S.M.JANANI



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SUBMITTED BY

Giri Akash.K



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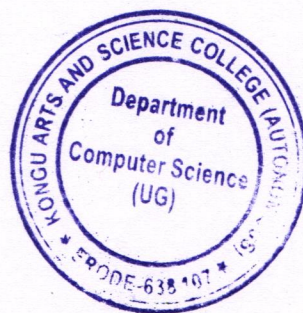
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## Neuromorphic Computing

Neuromorphic computing is inspired by the human brain's structure and functioning. It uses specialized hardware that mimics neural networks to process information efficiently. This technology consumes less power compared to traditional processors. Researchers are developing neuromorphic chips for AI applications, robotics, and pattern recognition. It enhances real-time learning and adaptability. Neuromorphic systems are useful in autonomous vehicles and smart devices. Though still experimental, this technology could revolutionize computing by making machines more intelligent and energy-efficient in the future.

*Sanjay*  
31/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*B. Sanjay*





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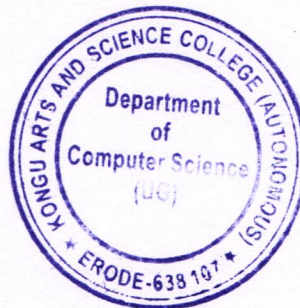
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**AI in Agriculture**

AI in agriculture improves farming efficiency. It analyzes soil data and weather patterns. Smart irrigation systems reduce water usage. Farmers use AI for crop monitoring. It increases productivity and sustainability. Drones collect agricultural data. AI supports food security initiatives globally.

*S. Janani*  
*31/1/26*  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*L. Vignesh*





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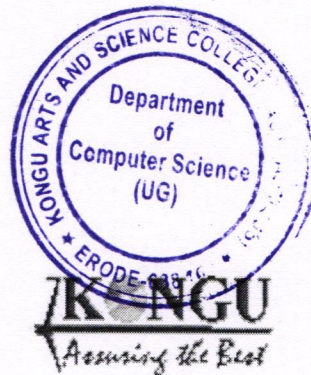
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### IT Outsourcing Trends

IT outsourcing involves hiring external companies to manage technology services. It reduces operational costs and improves efficiency. Many businesses outsource software development and technical support. Recent trends show increased outsourcing for cybersecurity and cloud management. Companies focus on selecting reliable partners. Communication and data protection are key concerns. Outsourcing allows businesses to focus on core activities. It remains a common strategy in global IT markets.

*Janani*  
5/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



SUBMITTED BY

*Pranav.S*



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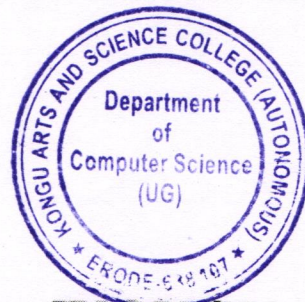
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## Natural Language Processing (NLP)

Natural Language Processing enables computers to understand and interpret human language. It combines linguistics and machine learning techniques. NLP is used in chatbots, translation tools, sentiment analysis, and search engines. Recent developments improve contextual understanding and multilingual support. Businesses rely on NLP to analyze customer feedback and automate communication. Challenges include handling slang, sarcasm, and regional languages. As datasets grow, NLP systems become more accurate. NLP technology significantly enhances communication between humans and machines.

*S. Janani*  
31/1/26  
STAFF INCHARGE

Ms.S.M.JANANI



**KONGU**

SUBMITTED BY

*Keerthana.K.*