



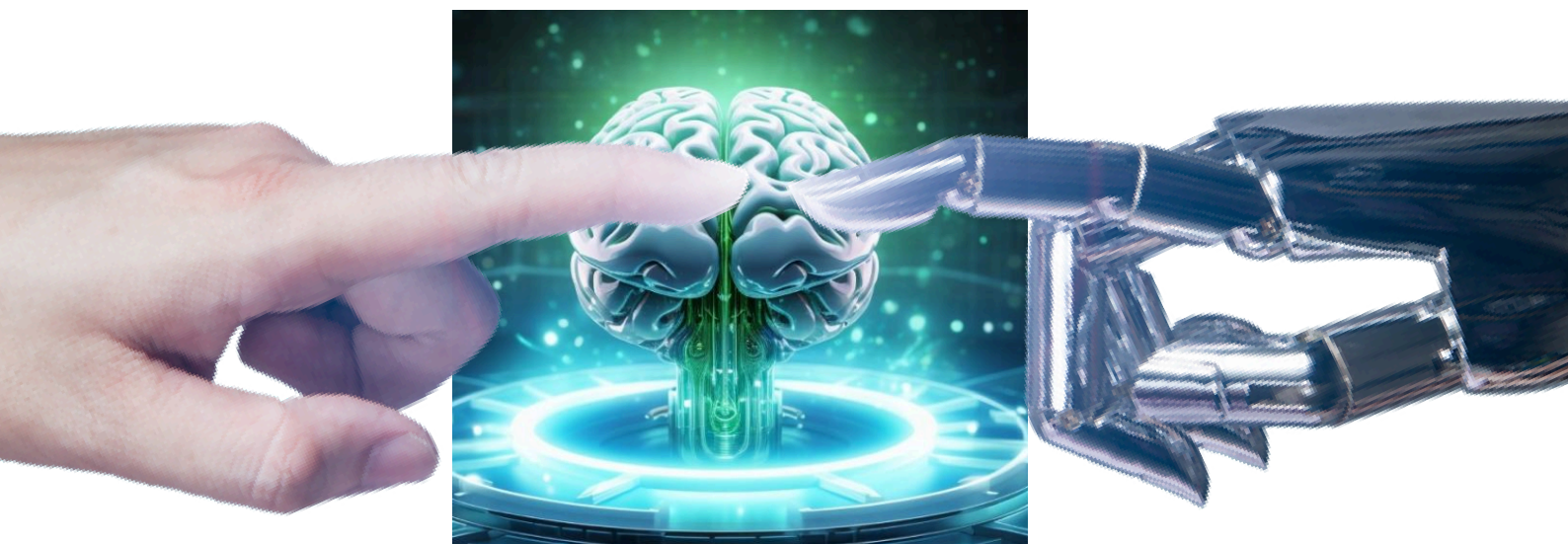
NEWSLETTER

JAN 2026

ISSUE 25



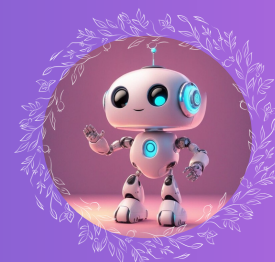
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE




IMAGINE, INNOVATE, IGNITE WITH AI

CONTENTS

1. Student Achievements
2. Student Campus ambassador
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12. PROEDGE 2.0 National level Product Competition
13. Student Publications
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17. Department Toppers
18. NGO
19. Seera Classes
20. Staff Achievements
21. Pongal Celebration 2026
22. EduTech Pioneers



DEPARTMENT HIGHLIGHTS

 QUALIFIED FACULTY	 STUDENT ACHIEVEMENTS	 MOUs & INDUSTRY TIE-UPS	 INTERNSHIPS & PLACEMENTS	 RESEARCH & PUBLICATIONS	 ADVANCED LABORATORIES
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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

VISION

To emerge as a Centre of Excellence in the field of Artificial Intelligence and to accomplish eminence to have global recognition through education, innovation and collaborative research in the realm of Data Science

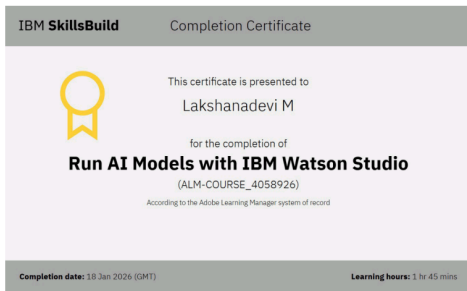
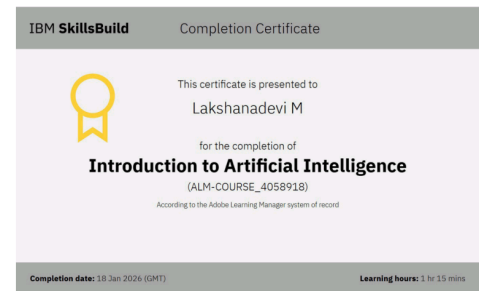
MISSION

1. To impart quality value-based technical education in cutting edge Artificial intelligence technologies that bridge the gap between academia and industry
2. To promote research, innovation and entrepreneurial skills with the latest technologies to be globally competitive professionals
3. To equip aspiring students with the skills to perform intelligent data analysis which in turn provide dynamic and lucrative careers in the field of technology
4. To develop technocrats with strong core capabilities in Artificial intelligence by providing good infrastructure, resources, effective teaching learning process and competency with state-of-the-art technologies

 PROJECT-BASED LEARNING	 VALUE-ADDED PROGRAMS	 PROFESSIONAL STUDENT CHAPTERS
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STUDENT ACHIEVEMENTS



Lakshanadevi II Year ADS M has successfully completed the Machine Learning and Deep Learning course on IBM SkillsBuild. She has also completed additional courses, including Natural Language Processing and Computer Vision, AI Ethics, Introduction to Artificial Intelligence, and Everyday Ethics for AI. These accomplishments reflect her strong commitment to advancing her knowledge and skills in the field of Artificial Intelligence.



STUDENT ACHIEVEMENTS



Muthukkaruppan II Year ADS, Pavithra E and Lakshana Devi has successfully completed the **Java Test** organized by **IIT, Bombay**. **Pavithra E II Year ADS** and **Lakshana Devi** has successfully completed **Protection from Browser Attacks**, organized by the **Vodafone Idea Foundation**. **Joshua D III Year ADS** attended the **AI Workflows and Automation Workshop** using **Make.com**, conducted by **NextWave**.



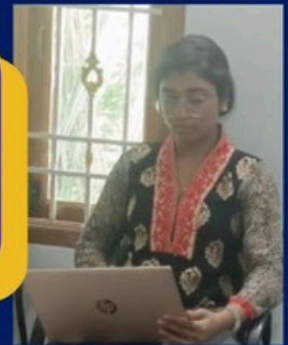
STUDENT ACHIEVEMENTS

Department of Artificial Intelligence and Data Science

Puducherry State Skill Development Mission (PSSDM)

DATE : 19/01/26 to 20/01/26

Pragati. R. A
 II Year ADS
 Boot Camp and UT Level
 Indiaskills Competition



Domain : **Cloud Computing**

Pragati R A, II-year ADS student, has been selected and actively participated under the Puducherry State Skill Development Mission, Government of Puducherry, in the Cloud Computing skill category at the UT-level India Skills Competition. The competition was held from 19/01/2026 to 20/01/2026, showcasing her technical skills, dedication and excellence in cloud technologies.



STUDENT ACHIEVEMENTS

Department of Artificial Intelligence and Data Science



Our **III year ADS students Stalin S, Janish Andrin** and **CSE Student Chris Noble** successfully participated in **Spyirex CTF**, a cybersecurity competition held at Jerusalem College of Engineering, and won a cash prize of **₹4,000 /-** for their excellent performance.


The Department of Artificial Intelligence and Data Science, St. Joseph's Institute of Technology, congratulates **Stalin S and Janish Andrin of III Year ADS**, along with **Chris Noble from CSE**, for their successful participation in **Spyirex CTF, a cybersecurity competition** held at **Jerusalem College of Engineering**. The team demonstrated exceptional problem-solving and cybersecurity skills during the contest. In recognition of their outstanding performance, they secured a **cash prize of ₹4,000/-**. This achievement reflects their technical expertise and collaborative effort. The department applauds their dedication and wishes them continued success.



STUDENT ACHIEVEMENTS

Department of Artificial Intelligence and Data Science

Congratulations




**\$200 bounty
(approx Rs.18,000)**

**ZOHO
BUG
BOUNTY**

Janish Andrin
III ADS
PEP- Cybersecurity Domain



Reported a Security vulnerability in Zoho per month
He is featured in Hall of Fame



The Department of Artificial Intelligence and Data Science, St. Joseph's Institute of Technology, congratulates **Janish Andrin, III Year ADS, PEP – Cybersecurity Domain**, for successfully reporting a security vulnerability in Zoho. In recognition of his responsible disclosure, he received a bug bounty of \$200 (approximately ₹18,000) and was featured in Zoho's Hall of Fame. This achievement highlights his strong cybersecurity skills and commitment to ethical hacking. The department appreciates his technical excellence and dedication. We wish him continued success in his cybersecurity career.




STUDENT ACHIEVEMENTS

Department of Artificial Intelligence and Data Science

Congratulations

Hall of Fame



COALITION INC. AND KIRBY CMS

Stalin S
III ADS
PEP- Cybersecurity Domain

Reported a Security Vulnerability to Coalition Inc. and Kirby CMS and received Hall of Fame recognition.

The Department of Artificial Intelligence and Data Science, St. Joseph's Institute of Technology, congratulates **Stalin S, III Year ADS, PEP – Cybersecurity Domain**, for reporting a **security vulnerability to Coalition Inc. and Kirby CMS**. As a result of his responsible disclosure, **he received Hall of Fame recognition** for his contribution to improving software security. This accomplishment **reflects his proficiency in cybersecurity practices and ethical vulnerability assessment**. The department applauds his efforts and technical expertise. We wish him great success in his future professional endeavors.



STUDENT CAMPUS AMBASSADOR

Department of Artificial Intelligence and Data Science



Congratulations

Campus Mantri
[GeeksforGeeks]



MANICKAVEL P
II YEAR

(Batch 2024 - 28)

Brand Ambassador

- Primary point of contact between GeeksforGeeks and the student community
- Organizing Campus Level Events and Activities
- Increase Student Engagement with educational resources & platforms

The Department of Artificial Intelligence and Data Science, St. Joseph's Institute of Technology, congratulates **Manickavel P, II Year ADS** (Batch 2024–2028), on being selected as **Campus Mantri (Brand Ambassador)** for **GeeksforGeeks**. In this role, he will serve as the **primary point of contact between GeeksforGeeks and the student community**, actively promoting technical learning and engagement. He will also be **responsible for organizing campus-level events and activities to enhance students' exposure to industry-relevant resources and platforms**. This achievement reflects his leadership skills, initiative and passion for technical education. The department wishes him continued success in his academic and professional journey.

»»» NEWSLETTER

UMAGINE TN 2026



The **UMAGINE TN 2026** event was attended by ADS students, accompanied by Mrs. Asha Assistant Professor. **Organized by ICT Academy**, the program served as an inspiring platform that informed, motivated, and encouraged students to explore innovation, emerging technologies, and future-ready skills.

E-CELL EVENT



E-Cell IIT Bombay NEC Finals – Team Achievement. The team secured 1st Rank at the State Level and **qualified for the Advanced Track of the E-Cell IIT Bombay NEC Finals**, achieving **26th Rank at the national level**. Participation in this prestigious competition offered **valuable exposure to entrepreneurial practices, strategic problem-solving and innovation on a national platform.**

ADS Student Participated:

- Bharathi Venugopal
- Vimalraj
- Tharsan Kanthaswamy

IEI CHAPTER EVENT



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
 In association with
 The Institution Of Engineers (India)
 KANCHEEPURAM LOCAL CENTRE
 Cordially invites you all for the
TWO DAYS WORKSHOP
 on
"EMPOWERING GEN Z WITH SMART FINANCIAL SKILLS"

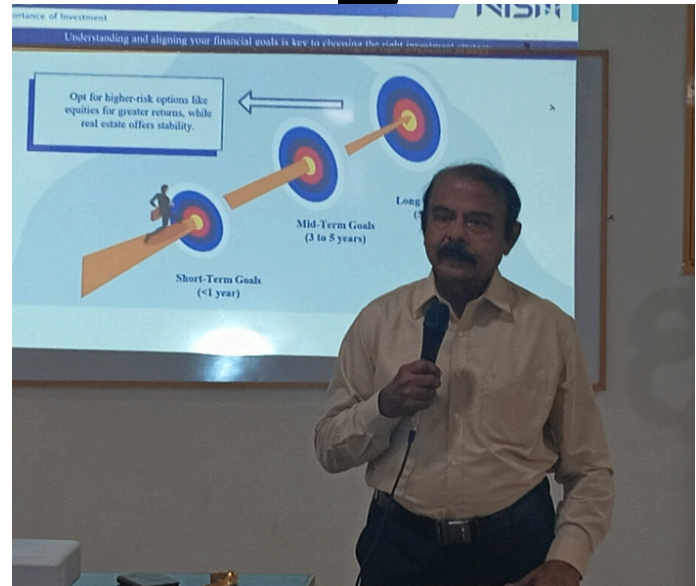
Date: 23rd & 24th January 2026
 Time: 10:00 a.m. to 1:00 p.m.
 Venue: AV Hall 2

Dr. Vijayakumar T
 Trainer - SEBI/NISM/NCFE/BSE/NSE
 Director - Loyola Institute of Technology and Science, KK District

Convenor
 Dr. R. Priscilla,
 HOD / ADS

Coordinators
 Mrs. J. Gold Beulah, AP / ADS
 Dr. M. Revathi, AP / ADS

Exclusively for IEI Members



The Department of **Artificial Intelligence and Data Science**, in association with the **Institution of Engineers (India) – Kancheepuram Local Centre**, organized a **Two Days Workshop** titled **"Empowering GEN Z With Smart Financial Skills"** on 23rd & 24th January 2026. The workshop was handled by **Dr. Vijayakumar T**, a certified trainer recognized by SEBI, NISM, NCFE, BSE, and NSE, and the **Director of Loyola Institute of Technology and Science, Kanyakumari District**. The sessions aimed to enhance financial awareness among students and equip them with practical skills required for effective money management and informed financial decision-making, with special emphasis on **how AI-driven tools and digital platforms are transforming modern finance**. The resource person covered essential topics such as personal finance management, investment fundamentals, stock market awareness, AI-assisted financial analysis and data-driven financial planning strategies. The sessions emphasized the importance of financial discipline, early investment planning, understanding financial risks and leveraging **AI-based financial technologies, particularly relevant for the younger generation**.

IEI CHAPTER EVENT



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
A SPECIAL TALK
 RESEARCH PAPER WRITING: A STEP-BY-STEP APPROACH

Mrs. J. Gold Beulah M.E., (Ph.D)
 Assistant Professor
 Artificial Intelligence and Data Science

Pardhavika G
 III Year ADS

Joshva D
 III Year ADS

For Beginners

II Year

Date : 29/01/2026
Time : 9: 30 A.M to 10:50 A.M - A Sec
11:30 A.M to 12:50 P.M - C Sec

Venue: CLASS ROOM

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
A SPECIAL TALK
 RESEARCH PAPER WRITING: A STEP-BY-STEP APPROACH

Date : 29/01/2026
II Year A and C Sec



The Special Talk on "Research Paper Writing: A Step-by-Step Approach", organized by the Department of Artificial Intelligence and Data Science in association with the ACM-W Student Chapter and IEI Student Chapter, St. Joseph's Institute of Technology, was conducted on 29/01/2026 for II Year students. The session was led by Mrs. J. Gold Beulah, M.E., (Ph.D), Assistant Professor, Artificial Intelligence and Data Science, along with student speakers Joshva D and Pardhavika G from III Year ADS. Designed especially for beginners, the talk provided a structured understanding of the research paper writing process, including topic selection, literature review, methodology framing, and publication ethics. The speakers also shared practical insights, common pitfalls to avoid, and effective strategies for academic writing. The collaborative effort of ACM-W and IEI chapters enriched the session and encouraged students to actively engage in research and scholarly pursuits.

INTERNATIONAL VIRTUAL TECH TALK



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

International Virtual Tech Talk

Topic: AI and IoT-Enabled Smart Kiosks for Efficient Healthcare Delivery



Pardhavika G
III Year ADS

Organized by
San Francisco Bay Area
Chapter of the
IEEE Computer Society

Event Link:
<https://www.eventbrite.com/e/ai-and-iot-enabled-smart-kiosks-for-efficient-healthcare-delivery-tickets-1981388661825>

Date : 29/01/2026
Time : 7:30 A.M To 8:30 A.M

St. JOSEPH'S
GROUP OF INSTITUTIONS
OMR, CHENNAI - 119

The Choice of
Disciplined Toppers

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

International Virtual Tech Talk

Topic: AI and IoT-Enabled Smart Kiosks for Efficient Healthcare Delivery

Integration of AI and IoT in Healthcare

- ✓ **Hardware Integration:** IoT-enabled sensors, cameras, biometric scanners, and environmental sensors are integrated into kiosks to collect patient and environmental data.
- ✓ **Data Collection & Transmission:** Data is captured from wearables, medical devices, imaging systems, and electronic health records, then transmitted securely for processing.
- ✓ **Real-time Analytics:** AI analyzes data in real time to support disease prediction, diagnosis, and personalized recommendations.
- ✓ **User Interface Design:** A user-friendly interface with touchscreens and speech-to-text enables easy interaction and healthcare providers.
- ✓ **System Integration:** Seamless integration with EMRs and hospital information systems (HIS) ensures data and efficient healthcare workflows.

Architecture and Workflow of Speech-to-Text Implementation in a Smart Kiosk

- Select a suitable speech recognition SDK compatible with the kiosk platform (e.g., Google Cloud Speech-to-Text, IBM Watson).
- Integrate the selected SDK into the kiosk software and application codebase.
- Configure audio input by connecting and setting up hardware.
- Capture user speech and transmit the audio to the speech engine for processing.
- Convert the recognized speech into text output.
- Display, store, or use the transcribed text to trigger actions.
- Fine-tune the system by adjusting language models and performing preprocessing for better accuracy and performance.

Organized by
San Francisco Bay Area
Chapter of the
IEEE Computer Society

Pardhavika G
III Year ADS

Date : 29/01/2026
Time : 7:30 A.M To 8:30 A.M

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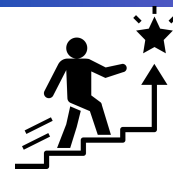
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Disciplined Toppers



Architecture and Workflow of Speech-to-Text Implementation in a Smart Kiosk

- ▶ **Speech-to-Text Implementation in a Smart Kiosk (Steps)**
- ▶ Select a suitable speech recognition SDK compatible with the kiosk platform (e.g., Google Cloud Speech-to-Text, IBM Watson).
- ▶ Integrate the selected SDK into the kiosk software and application codebase.
- ▶ Configure audio input by connecting and setting up hardware.
- ▶ Capture user speech and transmit the audio to the speech engine for processing.
- ▶ Convert the recognized speech into text output.
- ▶ Display, store, or use the transcribed text to trigger actions.
- ▶ Fine-tune the system by adjusting language models and performing preprocessing for better accuracy and performance.

Pardhavika G, III ADS, presented a talk titled "AI and IoT-Enabled Smart Kiosks for Efficient Healthcare Delivery", organized by the San Francisco Bay Area Chapter of the IEEE Computer Society. The presentation highlighted innovative applications of artificial intelligence and IoT technologies in enhancing accessibility, efficiency and quality of healthcare services. The project emphasized real-world impact, demonstrating how smart kiosks can support timely diagnostics and improved patient care in modern healthcare systems.



ACM-W CHAPTER EVENT

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

ONLINE WEBINAR

Topic: Patent Writing in India




Organized by
DAKH Edu
Solutions

Joshva D
III Year ADS

Join our free online webinar on patent writing in India designed in accordance with IPR guidelines.

Date : 30/01/2026
Time : 6:00 P.M To 7:00 P.M

REGISTER NOW



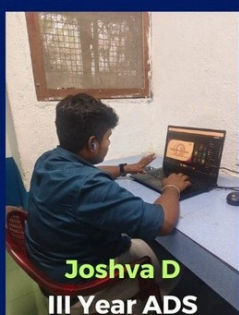

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Disciplined Toppers

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

ONLINE WEBINAR

Topic: Patent Writing in India

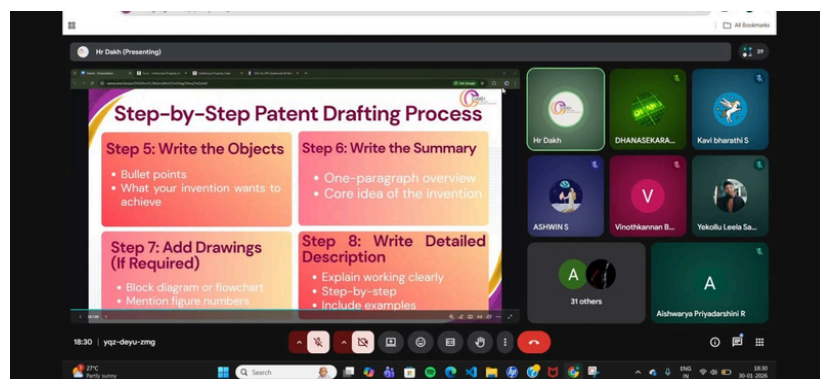
Organized by
DAKH Edu
Solutions

Joshva D
III Year ADS

Date : 30/01/2026
Time : 6:00 P.M To 7:00 P.M

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Joshva D, III ADS, participated in an online webinar on the topic "Patent Writing in India", organized by Dakh Edu Solutions on 30/01/2026. The webinar provided valuable insights into the fundamentals of patent drafting, filing procedures, and intellectual property rights, enhancing the student's understanding of innovation protection and legal frameworks in India.




STUDENT WORKSHOP


Department of Artificial Intelligence and Data Science
TWO DAYS STUDENT WORKSHOP
Foundation of Artificial Intelligence, Neural Networks
and Machine Learning



Day 1: Introduction to ML
Day 2: Data Preparation
for ML & CNN



Dr. JOAN S. MUTHU
Co-Founder
Princeton Medical Systems
Healthcare IT Industry



Dates : 27/1/26 & 28/1/26
II Year A
: 29/1/26 & 30/1/26
II Year B
: 02/2/26 & 03/2/26
II Year C

Venue: **ADS LAB 1**
Time : 8:00 AM to 3:00 PM



Two-Day Student Workshop (27/01/2026 – 30/01/2026)

A **Two-day workshop** was conducted for **II Year ADS (A & B)** students by **Dr. Joan S. Muthu, Co-Founder, Princeton Medical Systems**, from the **Healthcare IT Industry**. The workshop **focused on building foundational and practical knowledge in Machine Learning**. **Day 1** covered an **Introduction to Machine Learning**, while **Day 2** emphasized **Data Preparation for ML and Convolutional Neural Networks (CNN)**, providing students with hands-on insights into real-world applications.



GUEST LECTURE

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

GUEST LECTURE

Topic: AI Tools for Productivity and its Transformation in Industries



Balaji A
Senior Presales Analyst
(S_4HANA Cloud Contracting Invoicing certifier)
KaarTech

III Year
ADS



Date : 23/01/2026
Time : 10 : 00 A.M
Venue: Conference Hall



A **guest lecture** was conducted for **III Year ADS** students on the topic **"AI Tools for Productivity and its Transformation in Industries"**. The session was delivered by **Mr. Balaji A, Senior Presales Analyst, Kaar Tech** on **23/01/2026**. The lecture provided valuable insights into **practical AI tools, their impact on industrial productivity** and emerging trends shaping modern industries.

INDUSTRY INTERACTION



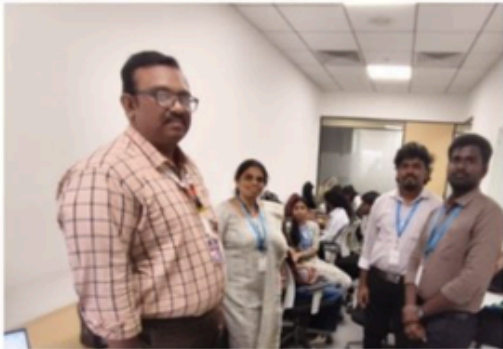
Department of Artificial Intelligence and Data Science



INDUSTRY INTERACTION

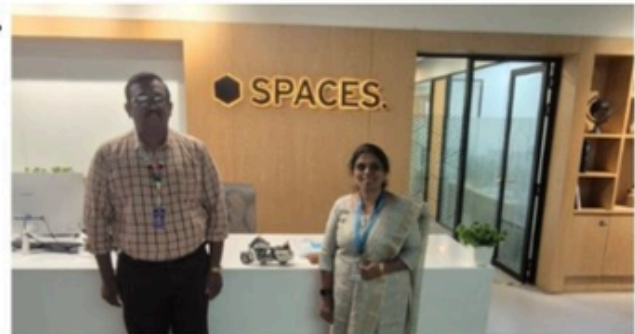
DATE : 23/01/2026

INSPIRE SOFTECH Group delivers cutting-edge, industry-ready technology solutions that bridge the gap between learning and real-world impact. United under one powerful vision, four dynamic companies **Inspire Softech**, **Edinz Tech Pvt. Ltd.**, **Adore Technology Solutions** and **IGreen StarTech Solutions**—to drive innovation and excellence. With a strong global footprint, **INSPIRE SOFTECH** proudly serves clients across 15+ countries, enabling growth through technology and talent.



Dr Karthiya Banu
Founder & CEO

Inspire Softech group of companies



Outcomes:

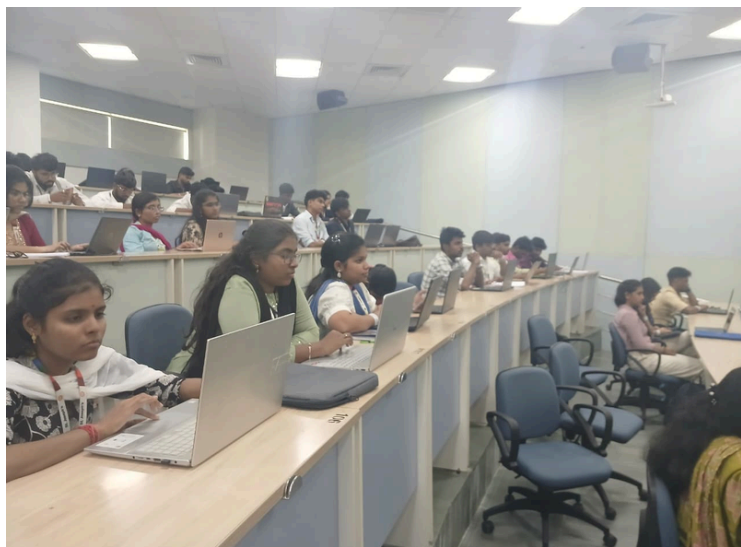
- Internships
- Placements
- Incubation
- MoU

Specialties:

- AIML
- Full-stack
- Cloud Computing
- Big Data

Dr. M. K. Kirubakaran, on 23/01/2026, visited four dynamic companies. The **Inspire Group of Companies** includes, **Inspire Soft Tech**, **Edinz Tech Pvt. Ltd.**, **Adore Technology Solutions** and **IGreen StarTech Solutions**. The interaction provided valuable exposure to industry trends, real-world applications and emerging career opportunities. **Key Outcomes:** Opportunities for **internships**, **incubation support**, **placements** and initiation of **industry collaboration through MoUs**.

PROEDGE 2.0 EVENT



PROEDGE 2.0, a Workshop and National Level Product Competition held on **30/01/2026**, was attended by 30 ADS students under the guidance of **Mrs. R. Abirami**. Organized by the **Great Lakes Institute of Management, Chennai**, the event featured keynote sessions by industry leaders, panel discussions on **Agentic AI, AutomateX**, a hands-on AI automation workshop using **n8n** and national-level product competitions. The program provided students with valuable exposure to emerging AI technologies, automation tools and product innovation at a national platform.

PROEDGE 2.0 NATIONAL LEVEL PRODUCT COMPETITION



Our **III-year ADS students Sabarish S, Sidharthan S and Saravanakumar T** participated in the **ProEdge National-Level Product Competition** held at **Great Lakes, Chennai**. Competing among nearly 100 participants, the team was shortlisted for **Round 2** where they worked on a case study based on the trending product idea **"Talentarch"**. Their solution included:

1. **Filling the gaps of verification, skill and trust**
2. **Creating a living profile using chartwork**
3. **Designing a flowchart for product innovations**

Their innovative approach and teamwork helped them advance to the top 16 teams, and ultimately, they secured **First Place, winning a cash prize of Rs. 40,000/-**, bringing great pride to the department.

STUDENT PUBLICATIONS



- **Aishvariya J**, a IV Year student, has presented a research paper titled **“AI-Powered Food Waste and Nutrition Assistant: A Multi-Agentic System for Sustainable Nutrition and Food Security”** in the **IEEE International Conference on Emerging Computing and Intelligent Technologies 2026**. The conference was organized by **G. Narayanamma Institute of Technology and Science, Hyderabad**
- **Syed Imran U**, a IV ADS student, has presented a research paper titled **“SmartTaxAI: An AI-Driven Automated System for GST Invoice Processing, Tax Classification, Compliance Verification, and Financial Reporting”** in the **7th World Conference on Artificial Intelligence: Advances and Applications (WCAIAA 2026)**. The conference was organized by the **National Forensic Sciences University, Goa Campus, India**
- **Kaarunya C S**, a IV ADS student, has presented a research paper titled **“PCOS Detection and Classification Using Hormonal Indicators and AI-Based Diagnostic Model”** in **FOSGRIE 2026 – International Conference on Frontiers of Sustainability: Global Responsibility for Innovation and Entrepreneurship (FOS 2026-GRIE)**. The conference was organized by **Thiagarajar School of Management, Madurai, Tamil Nadu**
- **Vishwa R**, a IV ADS student, has presented a research paper titled **“An Efficient and Scalable Real-Time Vehicle Surveillance System for Intelligent Traffic Management on Resource-Constrained Devices”** in the **IEEE International Conference on Smart Futuristic Technology (ICSFT) 2026**. The conference was organized by **Ghousia College of Engineering & Technology, Ramnagar, Bengaluru**
- **Arockia Shermila S**, a IV ADS student, has presented a research paper titled **“AI-Powered Predictive Maintenance System for Smart Agriculture Using IoT and Cloud Computing”** in the **IEEE International Conference on Emerging Computing and Intelligent Technologies 2026**. The conference was organized by **G. Narayanamma Institute of Technology and Science, Hyderabad**



PLACEMENT

Department of Artificial Intelligence and Data Science
Congratulations



Meganathan V
4.6 LPA

Placed at




Harinivashini S
4.4 LPA

(Batch 2022 - 26)
Junior AI Engineer



PRO CODE WORK
IT SOLUTIONS Pvt. Ltd.

Transform your business with AI.


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Disciplined Toppers

The Department of Artificial Intelligence and Data Science, St. Joseph's Institute of Technology, congratulates **Meganathan V** and **Harinivashini S** (Batch 2022–2026) on being placed as **Junior AI Engineers** at **Pro Code Work IT Solutions Pvt. Ltd.** **Meganathan V** secured a package of **4.6 LPA**, while **Harinivashini S** received **4.4 LPA**, along with a stipend of **₹12,000** per month. Their achievement reflects strong technical competence and consistent effort. The department applauds their dedication and hard work. We wish them great success in their professional careers.




PLACEMENT

Department of Artificial Intelligence and Data Science

Congratulations

(Batch 2022 - 2026)




7 LPA
+
Annual Bonus of
1 LPA



**C1X AdTech
Private Limited**

PLACED AT
C1X

RAMYA S
Software Engineer

Stipend
Rs. 10,000/-
Per month

 **St. JOSEPH'S**
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OMR, CHENNAI - 119

*The Choice of
Disciplined Toppers*

The Department of Artificial Intelligence and Data Science, St. Joseph's Institute of Technology, congratulates **Ramya S (Batch 2022-2026)** on being placed as a **Software Engineer at C1X AdTech Private Limited**. She has secured an impressive package of **7 LPA with an annual bonus of 1 LPA**. This achievement reflects her strong technical expertise and consistent dedication. The department appreciates her hard work and perseverance.



PLACEMENT

Department of Artificial Intelligence and Data Science

Congratulations

4-5 LPA

**Geonixa
Private Limited**

Jebapriya S

Corporate Growth Associate

(Batch 2022 - 2026)

PLACED AT
GeoNixa

Stipend
Rs. 15,000/-
Per month

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The Choice of
Disciplined **Toppers**

Jebapriya S, a student from the 2022–2026 batch, successfully secured an Placement opportunity at **Geonixa Private Limited** on **13/12/2025**. She was offered an internship stipend of **Rs. 15,000/-** and a **salary package of 5 LPA**, reflecting her strong potential and skills. She has been appointed to the role of **Corporate Growth Associate**, where she will contribute to business development and strategic growth initiatives of the organization.

INTERNSHIP



Department of Artificial Intelligence and Data Science
Congratulations






**C1X AdTech
Private Limited**

PLACED AT
C1X

Stipend
**Rs.10,000/-
Per month**

Pardhavika G
III Year
Engineering Intern
(Batch 2023 – 2027)

 **St. JOSEPH'S**
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OMR, CHENNAI - 119


*The Choice of
Disciplined Toppers*

The Department of Artificial Intelligence and Data Science, St. Joseph's Institute of Technology, congratulates **Pardhavika G, III Year student (Batch 2023–2027)**, on securing an **Engineering Intern position at C1X AdTech Private Limited**. She will receive a stipend of **₹10,000 per month**. This achievement reflects her strong technical skills and dedication to learning. The department appreciates her efforts and commitment.






INTERNSHIP

Department of Artificial Intelligence and Data Science
Council of Scientific and Industrial Research (CSIR)
Central Electronics Engineering Research Institute (CEERI) Chennai Centre

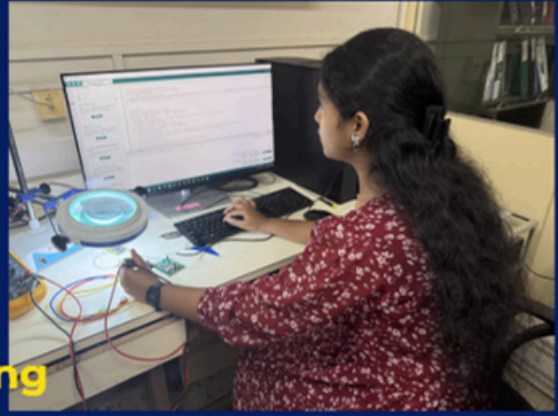


Mr. Satish Bindal
Principal Scientist

A Jeevika
II Year ADS
Project Intern



Domain
Machine Learning

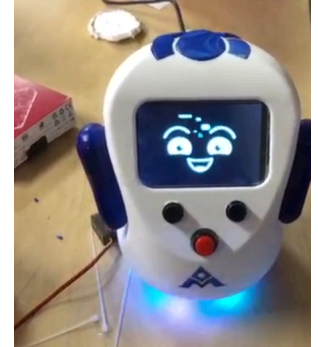
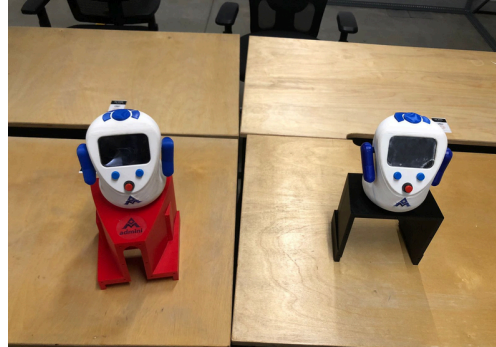


Project Title: Analysis of GSR Signals to Estimate Fatigue/Drowsiness

A Jeevika, II Year ADS Student, secured a project internship at the Council of Scientific and Industrial Research (CSIR) – Central Electronics Engineering Research Institute (CEERI), Chennai Centre on 23/01/2026. She is working as a Project Intern under the guidance of Mr. Satish Bindal, Principal Scientist, in the domain of Machine Learning, gaining valuable research exposure and hands-on experience in advanced technological applications.



UMAGINE TN 2026 INNOVATION SUMMIT



Our III Year ADS students actively participated in **Umagine TN 2026**, the **fourth edition of Tamil Nadu's flagship technology and innovation summit**. The event was held on **8-9 January 2026** at the **Chennai Trade Centre** and was organized by the **Electronics Corporation of Tamil Nadu Limited (ELCOT)**. As part of the event, the **students launched an AI Bot** in collaboration with their **internship company, IniramSquare**. They showcased **Admini** (<https://admini.co.in>), an **AI-powered, voice-enabled intelligent assistant** developed through integrated software and hardware implementation to enable seamless **human-AI interaction**. The students had the opportunity to contribute to and present a meaningful AI innovation on a prestigious government platform, marking a significant achievement in their academic and professional journey.



SkillRack Toppers

2022-2026 Batch

S. No	Name	Programs Solved	Bronze	SkillRack Rank
1	YADAV PRASAD G B	2408	1218	1298
2	KATHIRAVAN B	2031	1001	2549
3	PRAVEEN S	1927	992	3114
4	BALASUBRAMANIAN M	1498	558	8657
5	LANKESH M	1385	678	10491

2023-2027 Batch

S. No	Name	Programs Solved	Bronze	SkillRack Rank
1	RISHINI DHARAN T	1979	698	3002
2	MARIA PETER RUFIN M	1771	485	4489
3	ROHITSURYA A T	1692	518	5672
4	SABARISH S	1680	443	5767
5	INFANT JOEL E	1644	405	6142

2024-2028 Batch

S. No	Name	Programs Solved	Bronze	SkillRack Rank
1	RAJA VARSHAN R R	2081	679	2392
2	DEEPESH KUMAR S	1947	628	3165
3	VAISHNAVI DEVI SE	1926	634	3296
4	PAVITHRA E	1856	630	3774
5	JERUSHA S	1771	603	4504

Our students have consistently excelled in coding and problem-solving on SkillRack, securing the top five positions. Their dedication to upskilling has truly paid off. Congratulations to all our achievers for this outstanding accomplishment!

Department Toppers



Department of Artificial Intelligence and Data science VII SEMESTER (2022 - 2026)



RAMYA S
312422243120
9.22



BHARATH A I
312422243024
9.21



SANTHOSH I
312422243139
9.17



RAMYA K
312422243119
9.15



HARIHARAN K
31242243050
9.09



MADHU SANKAR S
312422243090
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MOHANA PRIYA S
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8.92



DEEPIKA D
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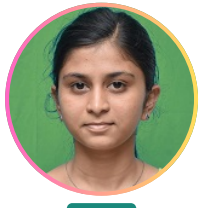
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NITHEESHWARI S
312422243105
8.87



SANJAY S
312422243137
8.85



ANNSI E
312422243010
8.84



DURGA P
312422243040
8.84



BALASUBRAMANIAN M
312422243022
8.83



TARANI J
312422243153
8.81



NIZAM AASIO
312422243106
8.81



VETHIKA V
312422243158
8.78



DELINA P
312422243031
8.72



VIJITHAA K J
312422243164
8.72



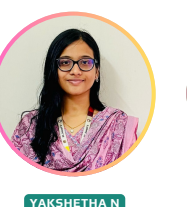
MALAR T
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HARINI T
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KAVINTHI V
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YAKSHETHA N
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MAMATHI S
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HARISH B
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SAHANA S
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DHARSHINI G
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ROHITHA R
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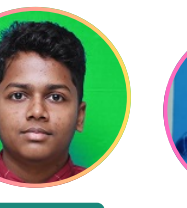
JENISHA J
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KEERTHIYA T
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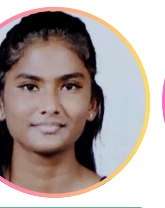
JOSHITHA R
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DEEPAN S B
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8.60



MEGANATHAN V
312422243029
8.60



YUVASHREE MP
312422243174
8.60



Y BAVIYA SHREE
312422243023
8.59

Department Toppers

Department of Artificial Intelligence and Data science

VII SEMESTER (2022 - 2026)



ABINAYA K
312422243004
8.58



ARUN VIJAY AP
312422243014
8.60



LINGESS
312422243089
8.58



PUJA L
312422243114
8.58



AISHVARIYAA J
312422243007
8.57



GABRIEL ALWIN S
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HARSHINI K N
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VISHNU PANDIAN R
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8.57



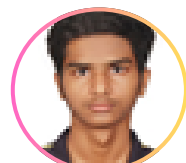
HARINIVASHINI S
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JAYASHREE M
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ISHANI M
312422243060
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KATHIRAVAN
312422243078
8.54



ROHIT AMALAN J
312422243127
8.54



ETHIRAJ G
312422243041
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ASHA DAVINA A
312422243017
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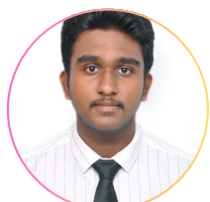
SHERIN RIYA S
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8.52



SAM DANIEL S
312422243134
8.52



GURUCHARAN RAJ K
312422243149
8.51



ARVIND KUMAR
PONSINGH S
A312422243016
8.50



SABARRESWARAN M
312422243130
8.50

We proudly congratulate our **55 final-year students** of the **VII Semester (2022–2026 batch)** for their outstanding academic achievement. Securing a **CGPA of 8.5 and above**, these toppers have set a benchmark of excellence through their dedication, consistency, and hard work.

Department Toppers

Department of Artificial Intelligence
and Data science

V SEMESTER (2023 - 2027)



SHERLEEN ANTHEA S
312423243164
9.36

SAARAH ZAYN
312423243146
9.18

SUVETHA PT
312423243179
9.18

DHARSHINI P S
312423243051
9.17

DHANISHA BHURUNO J
312423243050
9.06

PRADHEEP RAJA A
312423243128
9.04

JHANANI S
312423243085
9.04



SREENITHY SS
312423243174
9.02

JAZILA BEGUM B
312423243080
8.95

AAGNES PRECELLA T
312423243001
8.94

BIJINOLIN S
312423243034
8.93

KAAVIYAA SHREE S
312423243088
8.93

ABINAYAA SRI T
312423243004
8.93

HARINI P
312423243065
8.92



SANCHANA ASMI B
312423243154
8.88

JESWANTH K
312423243083
8.87

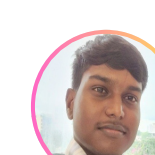
SHRINITHI MAHALAKSHMI R
312423243169
8.81

GAYATHRI R
312423243056
8.81

PRIYADHARSHINI M
312423243131
8.80

ANTONY RONALDO A
312423243023
8.87

MAHATHI SRI M R
312423243101
8.77



THARSAN KANTHASWAMY
312423243183
8.76

NARMATHA S
312423243117
8.76

RISHINI DHARAN T
312423243141
8.75

SANDHIYA S
312423243155
8.73

HARIPRIYA S
312423243067
8.73

JEEVIA HARSHINI M
312423243081
8.69

SABARISH S
312423243147
8.68



YOGIRAM B
312423243303
8.66

ADITHYA R
312423243008
8.66

JISHA M E
312423243086
8.65

LAKSHMI PRADEEPA
312423243096
8.65

ALEX ROHITH I
312423243017
8.65

RAMYA R
312423243137
8.65

DERANGULA HANSIKA
312423243047
8.65



VIMALRAJ R
312423243188
8.64

HEMA RAMACHANDRAN
312423243072
8.64

PARDHAVIKA G
312423243123
8.60

SHARMILA O
312423243165
8.58

HASVITHA R
312423243071
8.58

NISHA BRITTOLIN X I
312423243120
8.58

AKSHAYA S
312423243014
8.58

Department Toppers

Department of Artificial Intelligence
and Data science

V SEMESTER (2023 - 2027)



MONIKA K
312423243112
8.57

SAHITI SURESH
312423243149
8.56

MOHAMED AJMEER M
312423243108
8.54

SAMITHA S
312423243152
8.53



SARAVANAKUMAR T
312423243159
8.52

TAASHA TRINITA V
312423243180
8.52

HARI PRIYAA B R
312423243067
8.52

STEVIA S
312423243176
8.50

We proudly congratulate our **50 third-year students** of the **V Semester (2023–2027 batch)** for their outstanding academic achievement. Securing a **CGPA of 8.5 and above**, these toppers have set a benchmark of excellence through their dedication, consistency, and hard work.

Department Toppers

Department of Artificial Intelligence and Data science



III SEMESTER (2024 - 2028)



KAYALVIZHI V
312424243074
9.29



SUBASREE S
312424243164
9.13



SELVA DINESH
SELVASWAMINATHAN
312424243147
9.07



VIJAYA RAGHAVAN V
312424243185
8.89



DEEPESH KUMAR S
312424243028
8.88



GOPINATH S
312424243047
8.88



LAKSHANA DEVI M
312424243083
8.85



RITHIKA M
312424243129
8.84



REHANA TABASSUM S
312424243126
8.84



SANTHOSHI MARY A
312424243144
8.81



SHAN AMRISH GOVINDARAJ
312424243149
8.79



SADANA A S
312424243133
8.76

Department Toppers

Department of Artificial Intelligence and Data science



TOPPERS 8.5 CGPA AND ABOVE

III SEMESTER (2024 - 2028)



JASLINE G
312424243061
8.72



NIVETHA N
312424243107
8.72



DHARSHINI G S
312424243033
8.71



PATHAPATI ROSHINI
312424243109
8.68



PAVITHRA E
312424243110
8.67



HARIKUMAR S
312424243052
8.63



GIRIJA S
312424243043
8.63



SARUMADHI C
312424243145
8.61



SANDHIYA R
312424243140
8.60



SUJITHA J
312424243166
8.60



VAISHNAVI M
312424243117
8.59



JANANI R S
312424243059
8.59

Department Toppers

Department of Artificial Intelligence and Data science

TOPPERS 8.5 CGPA AND ABOVE

III SEMESTER (2024 - 2028)



RAJAVARSHAN R R
312424243122
8.57



JOBY J
312424243068
8.55



AMAL SANICA X
312424243010
8.53



TAMILARASI T
312424243170
8.53



FEDRER SCHUMACHERJUDE J
312424243039
8.52



KRISH ROSHAN R
312424243081
8.51



AKSHAYADHARSHINI S
312424243009
8.51



LAKSHMI THARANI M S
312424243086
8.51

We proudly congratulate our **32 third-year students** of the **III Semester (2024–2028 batch)** for their outstanding academic achievement. Securing a **CGPA of 8.5 and above**, these toppers have set a benchmark of excellence through their dedication, consistency, and hard work.



An **NGO visit** was organized on 24/01/26 and 29/01/26, providing students with a heartwarming experience. The visit allowed students to interact with the elderly and understand the values of empathy and respect. Through meaningful conversations, students learned important life lessons beyond textbooks. The experience emphasized the importance of care, compassion and social responsibility.

SEERA CLASSES



SEERA classes were conducted exclusively for **II and III year students** on **6/1, 20/1, 27/1 (II Year)** and **8/1, 22/1, 29/1 (III Year)** with the aim of enhancing employability skills, technical interview preparedness and overall industry readiness. Through expert-led discussions and **hands-on activities**, students were guided in **problem-solving strategies, aptitude development and effective communication**, reflecting the department's strong commitment to preparing students for success in competitive professional environments.

STAFF ACHIEVEMENTS



(12) PATENT APPLICATION PUBLICATION	(21) Application No.202541129497 A
(19) INDIA	
(22) Date of filing of Application :20/12/2025	(43) Publication Date : 02/01/2026
(54) Title of the invention : ENERGY-EFFICIENT COMMUNICATION ARCHITECTURE FOR BATTERY-POWERED DEVICES	
(51) International classification	(71)Name of Applicant : 1)Dr. M. P. Prabakaran Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, A.K.T Memorial College of Engineering and Technology, Kallakurichi, Tamil Nadu, India - 606 213 Tamil Nadu India 2)Mr. R. Ravi 3)Mrs. S. Afrin Banu 4)Dr. S. Muthulakshmi 5)Mrs. J Gold Beulah Patturose 6)Ms. K. Subbulakshmi 7)Ms. K. Ragavi 8)Mr. Sankara Rao Allada (72)Name of Inventor : 1)Dr. M. P. Prabakaran 2)Mr. R. Ravi 3)Mrs. S. Afrin Banu 4)Dr. S. Muthulakshmi 5)Mrs. J Gold Beulah Patturose 6)Ms. K. Subbulakshmi 7)Ms. K. Ragavi 8)Mr. Sankara Rao Allada
(31) Priority Document No	:H04W
(32) Priority Date	:52/02
(33) Name of priority country	:H04W
(86) International Application No	:84/18,
(87) International Publication No	:H04L
(61) Patent of Addition to Application Number	:12/28,
(62) Divisional to Application Number	:H04L
Filing Date	:12/26,
	:H04L
	:29/08
	:NA
	:NA
	:NA
	:01/01/1900
	:NA
	:NA
	:NA
	:NA
	:NA
	:NA
(57) Abstract :	
This invention introduces an energy-efficient communication architecture tailored for battery-powered IoT devices, tackling the drain from constant radio listening and redundant data sends. By integrating an ultra-low-power wake-up receiver with adaptive duty cycling, devices slumber deeply, awakening only for targeted signals or critical events, slashing idle energy waste by up to 80% in simulations. The core fuses asynchronous MAC protocols for collision-free access, edge-side data compression via adaptive sampling, and traffic-aware sleep schedules that evolve with network conditions. Nodes transmit smarter, sparser packets relying on spatio-temporal correlation to infer unseen data while preserving low-latency alerts for urgent scenarios like structural faults or environmental hazards. Real-world benchmarks from wake-up radio studies confirm 6x battery life extension in dense deployments, outperforming traditional protocols like LEACH. Ideal for remote sensing in agriculture, health monitoring, and smart cities, this design enables years-long, maintenance-free operation on coin-cell batteries.	
No. of Pages : 6	No. of Claims : 5
The Patent Office Journal No. 01/2026 Dated 02/01/2026	2840

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202641003689 A
(19) INDIA	
(22) Date of filing of Application :3/01/2026	(43) Publication Date : 30/01/2026
(54) Title of the invention : AI-BASED MARKET TREND FORECASTING SYSTEM USING MULTI-SOURCE DATA FUSION	
(51) International classification	(71)Name of Applicant : :G06N 20/00, G06Q 40/04, G06Q 30/02, G06N 3/04, G06N 3/04 (31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No : Filing Date :01/01/1900 (87) International Publication No :NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA
	1)Mr. Sankara Rao Allada Address of Applicant :Assistant Professor, Department of ECE, Dadi Institute of Engineering & Technology (Autonomous), Anjakapalle, Andhra Pradesh, India - 531 002 Andhra Pradesh India 2)Dr. C. Velusamy 3)Mrs. Ramya P 4)Ms Rajapriya S P 5)Mrs J Gold Beulah Patturose 6)Mrs. G. Sindhu 7)Mrs. M.P.Sanjatha 8)Mr. M. Nandhakumar (72)Name of Inventor : 1)Mr. Sankara Rao Allada 2)Dr. C. Velusamy 3)Mrs. Ramya P 4)Ms Rajapriya S P 5)Mrs J Gold Beulah Patturose 6)Mrs. G. Sindhu 7)Mrs. M.P. Sanjatha 8)Mr. M. Nandhakumar
(57) Abstract :	
The rapid growth of digital platforms and financial technologies has generated vast amounts of heterogeneous market data, making accurate trend forecasting both more challenging and more critical than ever. This paper presents an AI-based market trend forecasting system that leverages multi-source data fusion to improve prediction accuracy and robustness. The proposed system integrates structured data such as historical prices and trading volumes with unstructured data including news articles, social media sentiment, and macroeconomic indicators. Advanced machine learning and deep learning models are employed to extract meaningful patterns from each data source and combine them through an intelligent fusion framework. By capturing both quantitative signals and qualitative market sentiment, the system provides a more holistic understanding of market dynamics. Feature-level and decision-level fusion strategies are explored to enhance forecasting performance under varying market conditions. The model is trained and validated using real-world datasets to evaluate its predictive capability and adaptability. Experimental results demonstrate that the proposed approach outperforms traditional single-source forecasting models in terms of accuracy and stability. The system also shows improved resilience to noise and sudden market fluctuations. Furthermore, the framework is scalable and can be extended to different financial markets and asset classes. The proposed solution supports informed decision-making for investors, analysts, and policymakers. Overall, this work highlights the significance of multi-source data fusion in building intelligent and reliable market forecasting systems driven by artificial intelligence.	
No. of Pages : 8	No. of Claims : 5
The Patent Office Journal No. 05/2026 Dated 30/01/2026	13477

- **J Gold Beulah Patturose**, Published patent Title “ **Energy Efficient Communication Architecture for Battery – Powered”** Application No: **202541129497 A** , Dated **02/01/2026**
- **J Gold Beulah Patturose**, Published patent Title “ **AI- Based Market Trend Forecasting System Using Multi-Source Data Fusion”** Application No: **202641003689 A** , Dated **30/01/2026**

STAFF ACHIEVEMENTS



(12) PATENT APPLICATION PUBLICATION (21) Application No.202541127177 A
 (19) INDIA
 (22) Date of filing of Application :15/12/2025 (43) Publication Date : 02/01/2026

(54) Title of the invention : ADAPTIVE MACHINE LEARNING SYSTEM FOR REAL-TIME THREAT PREDICTION

(51) International classification :G06N 20/20, H04L 29/06, G06F 21/55, G06N 20/00, G06N 3/08 (31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No : Filing Date :01/01/1900 (87) International Publication No :NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Mrs. P. Jenifer Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India - 627 003 Tamil Nadu India 2)Mrs. K. S. Gunavathy 3)Dr. M. Ruban Gladwin 4)Mrs. W. Vinothini Mary 5)Mrs. Reena D 6)Mrs. S. Gowri 7)Mrs. V. Revathy 8)Mrs. Jenifus Selvarani A (72)Name of Inventor : 1)Mrs. P. Jenifer 2)Mrs. K. S. Gunavathy 3)Dr. M. Ruban Gladwin 4)Mrs. W. Vinothini Mary 5)Mrs. Reena D 6)Mrs. S. Gowri 7)Mrs. V. Revathy 8)Mrs. Jenifus Selvarani A
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(57) Abstract :
 This invention presents an adaptive machine learning system designed for real-time prediction of security threats across dynamic data environments. The system continuously learns and updates predictive models based on streaming data inputs, enabling rapid identification of emerging threats with minimal latency. It employs ensemble learning techniques combined with online model adaptation to maintain high accuracy amid evolving patterns and adversarial conditions. Real-time data preprocessing, feature extraction, and anomaly detection modules support robust threat forecasting in diverse applications such as network security, fraud detection, and physical intrusion monitoring. Experimental results demonstrate the system's superior performance in balancing precision, recall, and response time, making it suitable for proactive and scalable security solutions.
 No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION (21) Application No.202541120120 A
 (19) INDIA
 (22) Date of filing of Application :02/12/2025 (43) Publication Date : 02/01/2026

(54) Title of the invention : THREAT DETECTION FRAMEWORK USING EMOTION-WEIGHTED NLP MODELS

(51) International classification :G06N 20/00, G06F 16/35, G06F 40/30, G06F 16/332, G06F 16/33 (31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No : Filing Date :01/01/1900 (87) International Publication No :NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Ms. B. Varshath Nikila Address of Applicant :Assistant Professor, Department of Information Technology, Vel Tech Multi Tech Dr Rangarajan Dr Sakunthala Engineering college, #42, Avadi – Vel Tech Road, Poonamallee - Avadi High Rd, Vel Nagar, Chennai, Tamil Nadu, India - 600 055 Tamil Nadu India 2)Dr. N. Mohan Prabhu 3)Dr. K. Venkatesh 4)Mrs. W. Vinothini Mary 5)Mrs. B. Jafny Benshia 6)Mrs. Jenifer Lincy N 7)Mrs. Jenifus Selvarani A 8)Mrs. K. M. Annammal (72)Name of Inventor : 1)Ms. B. Varshath Nikila 2)Dr. N. Mohan Prabhu 3)Dr. K. Venkatesh 4)Mrs. W. Vinothini Mary 5)Mrs. B. Jafny Benshia 6)Mrs. Jenifer Lincy N 7)Mrs. Jenifus Selvarani A 8)Mrs. K. M. Annammal
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(57) Abstract :
 This paper presents a threat detection framework that integrates emotion-weighted natural language processing (NLP) models to enhance the accuracy and contextual sensitivity of threat identification in textual data. The proposed approach leverages emotion recognition algorithms to assign dynamic weights to linguistic features based on detected emotional states such as anger, fear, and aggression. By incorporating these emotion-derived weights into conventional NLP threat detection pipelines, the framework improves the distinction between benign and malicious intents within unstructured text. Experimental results demonstrate that the emotion-weighted model outperforms baseline methods on benchmark datasets, delivering higher precision and recall in identifying potential threats. This framework advances automated threat detection by embedding affective computing principles, thereby providing a more nuanced and effective security analytic tool.
 No. of Pages : 8 No. of Claims : 5

- **Jenifus Selvarani A** has published a patent titled **“Threat Detection Framework Using Emotion-Weighted NLP Models”** with **Application No. 202541120120 A**, dated 02/01/2026. This patent highlights an innovative approach to threat detection by integrating emotion-aware natural language processing models, demonstrating a significant contribution to advanced security and intelligent analysis systems.
- **Jenifus Selvarani A** has published a patent titled **“Deep Contextual Sentiment Analysis Using Hierarchical Transformer Networks”** with **Application No. 202541127178 A**, dated 02/01/2026. The patent presents an advanced methodology for sentiment analysis by leveraging hierarchical transformer architectures, contributing significantly to the field of natural language processing and intelligent data analytics.

STAFF ACHIEVEMENTS



(12) PATENT APPLICATION PUBLICATION (19) INDIA (22) Date of filing of Application :15/12/2025	(21) Application No.202541127178 A (43) Publication Date : 02/01/2026
(54) Title of the invention : DEEP CONTEXTUAL SENTIMENT ANALYSIS USING HIERARCHICAL TRANSFORMER NETWORKS	
(51) International classification	(71) Name of Applicant : 1)Ms. S. Abirna Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Grace College of Engineering, Tiruchendur Road, Mullakkadu, Tuticorin, Tamil Nadu, India -628 005 Tamil Nadu India 2)Mr. M. Krishna Kumar 3)Mrs. R. Angel Hepzibah 4)Mrs. W. Vinodhini Mary 5)Mrs. Jenifer Lincy N 6)Mrs. G. Princy Linda Mary 7)Mrs. Jenifus Selvarani A 8)Mr. Viniston Suthahar J
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:
Filing Date	: 01/01/1900
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA
(57) Abstract : This paper presents a novel framework for sentiment analysis that employs hierarchical transformer networks to capture deep contextual information across text sequences. Unlike traditional models that analyze text at a single level, the hierarchical architecture processes words, sentences, and document-level structures separately while maintaining contextual interdependencies. Leveraging transformer-based attention mechanisms, the model effectively attends to long-range dependencies and subtle linguistic cues that influence sentiment interpretation. Experimental evaluations on benchmark sentiment datasets demonstrate significant improvements in accuracy and robustness over conventional transformer and recurrent neural network baselines. This approach advances sentiment analysis by delivering fine-grained, context-aware sentiment predictions suitable for complex, multi-level textual data. No. of Pages : 8 No. of Claims : 4	
The Patent Office Journal No. 01/2026 Dated 02/01/2026	2410

(12) PATENT APPLICATION PUBLICATION (19) INDIA (22) Date of filing of Application :11/12/2025	(21) Application No.202541125014 A (43) Publication Date : 02/01/2026
(54) Title of the invention : AUTOMATED FRAMEWORK FOR COMPREHENSIVE BUSINESS RISK ASSESSMENT AND ADAPTIVE MITIGATION PLANNING	
(51) International classification	(71) Name of Applicant : 1)Mrs. Rekha R Address of Applicant :Assistant Professor, School of Management Studies, Sathyabama Institute of Science and Technology, Diermed University, Chennai -600119, Tamil Nadu 2)Mr. Satyendra Kumar Dewangan 3)Dr. V. Anitha 4)Dr. Nagarajan G 5)Dr. S. Sankar 6)Mrs. A. Shanthakumari (72) Name of Inventor : 1)Mrs. Rekha R 2)Mr. Satyendra Kumar Dewangan 3)Dr. V. Anitha 4)Dr. Nagarajan G 5)Dr. S. Sankar 6)Mrs. A. Shanthakumari
(31) Priority Document No	:G06Q 10106 G06N 20000 G06N 5/04 G06N 5/02 G06Q 40000
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:
Filing Date	: 01/01/1900
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA
(57) Abstract : 026) The present invention discloses an Automated Framework for Comprehensive Business Risk Assessment and Adaptive Mitigation Planning that leverages artificial intelligence, machine learning, and predictive analytics to evaluate, monitor, and mitigate enterprise risks in real time. The system integrates a unified data acquisition layer, an AI-driven risk scoring engine, a scenario simulation and predictive modeling module, and an intelligent mitigation recommendation generator. Knowledge graphs are employed to capture dependencies among business processes, assets, and risk factors, enabling accurate risk correlation and root cause analysis. A real-time visualization dashboard provides actionable insights, alerts, and optimized mitigation strategies to decision-makers. The framework addresses the limitations of traditional risk management methods by automating multi-dimensional risk assessment, enhancing proactive decision-making, and supporting scalable deployment across diverse industries and enterprise environments. Accompanied Drawing [FIGS. 1-2] No. of Pages : 20 No. of Claims : 10	
The Patent Office Journal No. 01/2026 Dated 02/01/2026	1909

- **Jenifus Selvarani A** has published a patent titled **“Adaptive Machine Learning System for Real-Time Threat Prediction”** with Application No. 202541127177 A, dated 02/01/2026. This patent introduces an adaptive machine learning-based approach for real-time threat prediction, contributing to advanced research in intelligent security systems and predictive analytics.
- **A. Shanthakumari** has published a patent titled **“Automated Framework for Comprehensive Business Risk Assessment and Adaptive Mitigation Planning”** with Application No. 202541125014 A, dated 02/01/2026. This patent presents an automated approach to identifying, assessing and mitigating business risks, contributing to intelligent decision-support systems and adaptive risk management strategies.
- **S. B. Priya** has published a patent titled **“An Integrated Quality 4.0 Framework for Supply Chain Optimization Using Six Sigma and Machine Learning.”** This invention proposes a comprehensive framework that combines Quality 4.0 principles, Six Sigma methodologies and machine learning techniques to enhance efficiency, quality and decision-making in supply chain management.



Paper Publications

- **S. B. Priya** has presented a research paper titled **“Behavioral Emotion Monitoring System for Professional Environments: A Deep Learning-Based GUI-Integrated Real-Time System”** at the **International Conference on Future Tech: AI-Driven Innovations for Sustainable Development Goals**, held on December 22–23, 2025. The presentation highlighted the application of deep learning techniques for real-time emotion monitoring to support professional and sustainable work environments.
- **Pradeep Kumar** has contributed to the book chapter titled **“Hybrid Multi-model Ensemble System for Effective Intrusion Detection and Prevention in Cloud Environment Using Hypergraph,”** published in the book **Information Systems for Intelligent Systems** on 07/01/2026. This work highlights advanced approaches to intrusion detection and prevention in cloud environments using ensemble models and hypergraph techniques.
- **R. Priscilla and J. Gold Beulah Patturose** successfully presented a research paper titled **“AI-Powered Food Waste and Nutrition Assistant: A Multi-Agentic System for Sustainable Nutrition and Food Security”** at the **IEEE International Conference on Emerging Computing and Intelligent Technologies (ICoECIT-2026)**. The conference was held on 28th and 29th January 2026 at G. Narayanamma Institute of Technology & Science (GNITS), Hyderabad.
- **R. Priscilla and J. Gold Beulah Patturose** presented a research paper titled **“Dynamic Optimizer Selection for Deep Learning Using Upper Confidence Bound Bandit Algorithm”** at the **IEEE International Conference on Emerging Computing and Intelligent Technologies (ICoECIT-2026)**. The conference was held on 28th and 29th January 2026 at G. Narayanamma Institute of Technology & Science (GNITS),

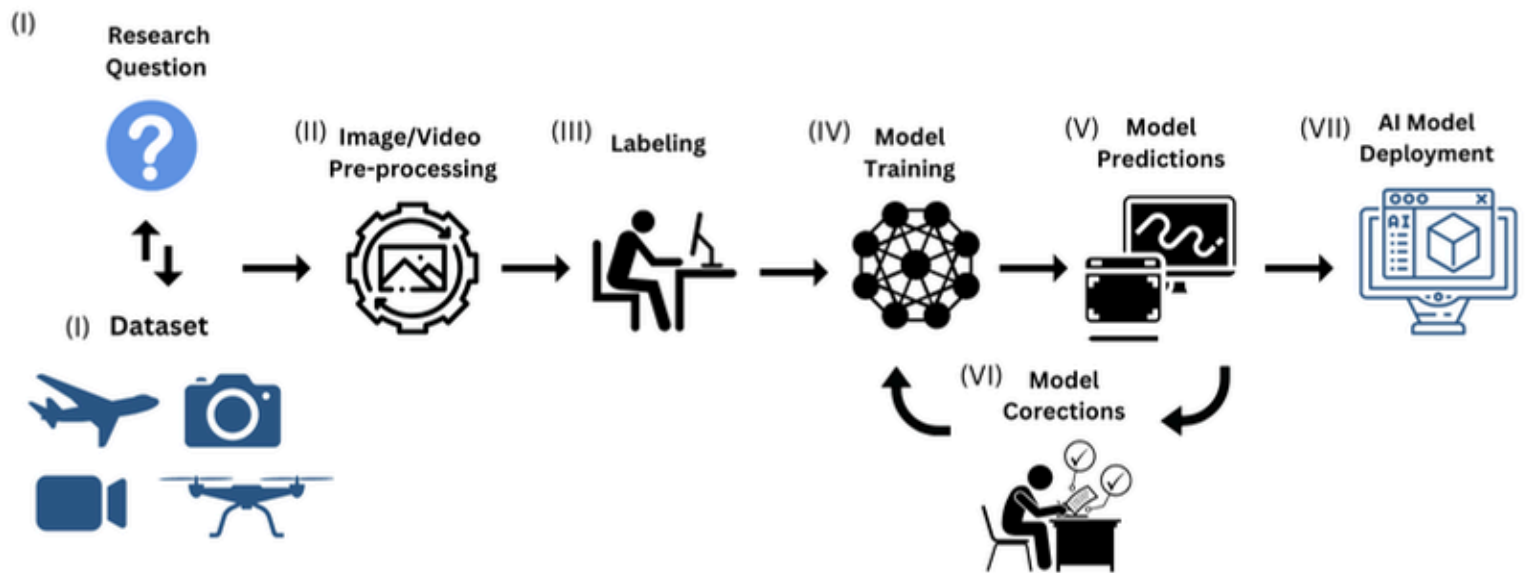
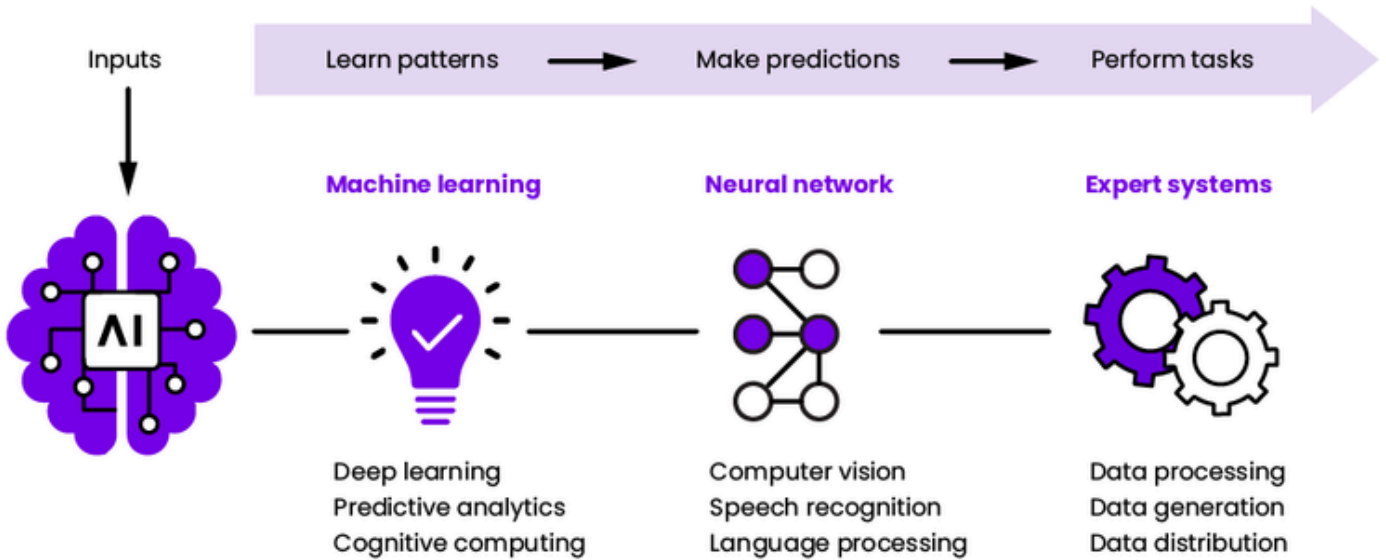
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