PAN-No. : AAATG6551G
GST-No. : 29AAATG6551G1ZL

GSSS | GEETHA SHISHU SHIKSHANA SANGHA(R)
INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN
(Affiliated to Visvesvaraya Technological University, Belagavi. Approved by AICTE New Delhi & Govt. of Karnataka)
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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

NEWS LETTER 2025-2026 (ODD SEMESTER)

INFONITE

ABOUT THE DEPARTMENT:

The Department of Information Science and Engineering became a part of this esteemed organization in the year 2003 with intake of 60 students since its inception. It is recognized by AICTE, New Delhi, India and affiliated to VTU, Belagavi, Karnataka. The course has become popular among students due to the achievements and rigor. The department has smart classrooms with projectors and computer laboratories with high-end systems supporting Wi-Fi facility. The Department has 9 professionally qualified faculties out of which 4 faculties are with doctorate degree and 1 faculty is pursuing Ph.D.

The teaching faculties and technical staff members are committed to continuously improve the quality of education by enhancing the knowledge of students and involved in R&D activities with successfully bagging funded projects worth Rs 14,60,700/- from various government and funding agencies.

Visvesvaraya Technological University, Belagavi, has granted the RESEARCH CENTER (Ref wide: VTU/Aca-LIC//2019- 20/SO/3181/56 Dated 6th Aug 2019) to promote R&D activities for both staff & students at the Department.

VISION:

To be recognized nationally as an accomplished department producing global leaders and researchers as committed, enthusiastic and excellent ethical women technical graduate for the better tomorrow.

MISSION:

M1: To provide Students with Innovative and research skills, which is need of the hour for technical students.

M2: To impart knowledge to the students of Information Science and Engineering with relevant core and practical knowledge inculcating real time experience in the promising field of computing.

M3: To prepare the graduates to meet information technology challenges with a blend of social, human, ethical and value based education**.**

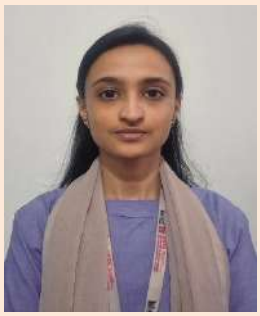
PLACEMENT DETAILS 2025-2026

Total Strength: 66
Total Eligible Students: 66
Total Students Placed: 40

Highest Package = 22 Lakhs Per Annum
Avg Package = 7 Lakhs Per Annum

Sl.No	Student Name	USN	Name of the Company Placed	CTC	Photos
1.	Deepthi R	4GW22IS019	Deutsche India	22 LPA	
2.	Smrithi R Sharma	4GW22IS058	Deutsche India	22 LPA	
3	Amitha K N	4GW22IS002	HPE R&D	17.5 LPA	

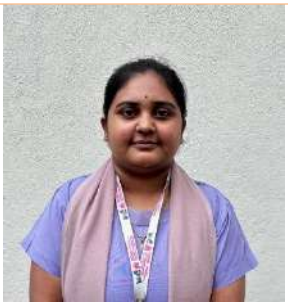
4	Ananya RS	4GW22IS008	HSBC Technology, India	16.4 LPA	
5	Chandana T J	4GW22IS014	HSBC Technology, India	16.4 LPA	
6	D S Bhargavi	4GW22IS018	HSBC Technology, India	16.4 LPA	
7	Hamsa Suresh	4GW22IS022	HSBC Technology, India	16.4 LPA	
8	Laalithya N	4GW22IS026	HSBC Technology, India	16.4 LPA	
9	Poornima M	4GW22IS040	HSBC Technology, India	16.4 LPA	

					
10	Prathiksha Damodar A	4GW22IS041	Dell Technologies	14.4 LPA	
11	Prathiksha R	4GW22IS043	Dell Technologies	14.4 LPA	
12	Sowjanya Jagadish	4GW22IS059	Dell Technologies	14.4 LPA	
13	Yashaswini S	4GW22IS062	Dell Technologies	14.4 LPA	
14	Amrutha K V	4GW22IS003	Eli Lilly	Intern with Stipend of 50k/Month (Based on their performance during	

				internship, If converted to full time the salary package will be 11.5 LPA)	
15	Chinmayi M Mathad	4GW22IS016	Eli Lilly	Intern with Stipend of 50k/Month (Based on their performance during internship, If converted to full time the salary package will be 11.5 LPA)	
16	Harshitha C N	4GW22IS023	Eli Lilly	Intern with Stipend of 50k/Month (Based on their performance during internship, If converted to full time the salary package will be 11.5 LPA)	
17	Lahari C N	4GW22IS027	Eli Lilly	Intern with Stipend of 50k/Month (Based on their performance during internship, If converted to full time the salary package will be 11.5 LPA)	
18	Mamatha P	4GW22IS030	Eli Lilly	Intern with	

				Stipend of 50k/Month (Based on their performance during internship, If converted to full time the salary package will be 11.5 LPA)	
19	Shreeya Dinesh	4GW22IS054	Eli Lilly	Intern with Stipend of 50k/Month (Based on their performance during internship, If converted to full time the salary package will be 11.5 LPA)	
20	Ananya Bindu N	4GW22IS007	EXL Digital	10.3 LPA	
21	Annapoorna S J	4GW22IS010	EXL Digital	10.3 LPA	
22	Sinchana V	4GW22IS057	EXL Digital	10.3 LPA	

23	Jamuna N	4GW22IS024	Boeing India	9.38 LPA	
24	S Sowmya	4GW22IS049	Clarivate	7.5 LPA	
25	Shreya N	4GW22IS055	Clarivate	7.5 LPA	
26	Aishwarya K M	4GW22IS001	Capgemini	5.75 LPA	
27	Chathurya R	4GW22IS015	Capgemini	5.75 LPA	
28	Manasa Dixith N	4GW22IS031	Capgemini	5.75 LPA	

					
29	Nayana M	4GW23IS401	IBM	4.75 LPA	
30	Amrutha S	4GW22IS004	Capgemini	4.25 LPA	
31	Meghana V	4GW22IS033	Capgemini	4.25 LPA	
32	Monika S M	4GW22IS034	Capgemini	4.25 LPA	
33	Shreelakshmi H C	4GW22IS053	Capgemini	4.25 LPA	

					
34	Shreya N	4GW22IS056	Capgemini	4.25 LPA	
35	Anagha S	4GW22IS006	Capgemini	4.25 LPA	
36	Lakshmi H J	4GW22IS028	Cognizant	4 LPA	
37	Madhumitha R	4GW23IS400	Cognizant	4 LPA	
38	Shivani Gireesh	4GW22IS051	Infosys	3.6 LPA	

					
39	Chintana G	4GW22IS017	Bosch Global Software Technologies (BGSW)	Intern with Stipend of 25k/Month (Performance based conversion)	
40	Ankitha Y H	4GW22IS009	Ericsson	Intern with Stipend of 35k/Month	

ISE TOPPERS LIST ODD 2025

Semester III

FIRST	SECOND	THIRD
		
GANAVI K S 4GW24IS020 91.50%	**INCHARA N 4GW24IS027 91.25%**	**AKSHATHA S KOTTUR 4GW24IS002 90.37%**

Semester V

FIRST	SECOND	THIRD	
			
PATIL RAJDEEPTI DHANANJAY 4GW23IS032 90.2%	THEJASHREE B 4GW23IS058 87.98%	AISHWARYA S L 4GW23IS001 87.5%	DHANYA R BHAT 4GW23IS009 87.5%

Semester VII

FIRST	SECOND	THIRD
		
AMITHA K N 4GW22IS002 91%	PRATHIKSHA DAMODAR 4GW22IS041 90.43%	CHATHURYA R 4GW22IS015 89.43%

DEPARMENT ACHIEVEMENTS

MEMORANDUM OF UNDERSTANDING (MOU)

Name of the company: DSEdify Pvt.Ltd.Bengaluru.



Signing of MOU between GSSSIETW, Mysuru & DSEdify Pvt.Ltd.Bengaluru on 8th September 2025.

Linux FOSS – Student Club Activities

The department of Information Science & Engineering of GSSSIETW has initiated the Linux (FOSS -Free and Open-Source Software) Club for the students peer group learning activities. This club will be more focused on Free and Open-Source Software (FOSS) model, it provides on interesting tools and processes to exchange share and exploit software and knowledge efficiently and effectively. This club will be more focused on peer group learning through usage of open source platform, Awareness workshop of tools and its integrated emerging technologies, conduction of event like Ideation / Hackathon competition, Project Expo etc



A Technical Talk on "Linux Commands" by by Ms. Vaidehi M Purohit, Solution Engineer at Telus Digital, Bangalore, on 23rd August 2025 for FOSS CLUB members.



A Mind Mesh Competition on Linux Commands for all FOSS CLUB members on 14th November 2025.

TECHNICAL EVENTS CONDUCTED UNDER TECHNICAL FORUM- INFONITE

About the forum:

The department has a student forum named INFONITE (Information Infinite) set up in the year 2011. The forum provides platform for students to showcase their technical abilities beyond the ambit of academics. INFONITE conducts various technical events, technical talks, workshops, internship programs and industry visits.



Three days workshop on “From Bytes to Insights - A Hands - on Big Data Analytics” from 8th to 10th September 2025 by Dalvik Apps, Mumbai for 7th semester students.



Four Days Summer Semester Workshop on " Kick Start - A Practical Introduction to Object Oriented Programming " from 8th to 11th September 2025 by Dyashin Technologies, Bengaluru for 3rd semester students.



A Two Days Workshop on "Introduction to Parallel Computing using OpenMP, MPI" from 25th to 26th September 2025 by SMAGJ Pvt. Ltd., Bengaluru for 7th semester students.



Three Days Workshop on "Data Structures and Algorithms for Modern Computing" from 10th to 12th November 2025 by Dlithe Consultancy Servises, Bengaluru for 3rd semester students.



A Two Days Workshop on "Exploring Data Science with Python: From Basics to Insights" from 12th to 13th November 2025 for 5th semester students.



A Technical Talk on "Cloud, Data Analytics, and AI: Building Scalable Solutions for Intelligent Enterprises" on 22nd November 2025 by Manasa T N, Global Digital Manager – PX and Sustainability, SKF, Bengaluru for 5th semester students.

INDUSTRIAL VISIT







Industrial visit to Dyashin Technosoft Pvt. Ltd., Bengaluru on 4th November 2025 for 5th semester students.



Industrial visit to Doordarshan Kendra, Bengaluru on 27th November 2025 for 3rd semester students

PARENTS - TEACHERS MEETING





The department has organized **Parents-Teachers Meeting** (Odd Semester) for the 3rd, 5th, 7th semester students of ISE was scheduled on **14th November 2025.**

STUDENTS ACHIEVEMENTS

MOOC Course Completed	**118**
Webinar / Seminar Attended / Hackathons/Project Competition Participations	**20**

MOOC Course Completed

Sl.No	Semester	Title of MooC course completed	No.of Students attended	Total No.of Students
1	3rd	AI Artificial Intelligence with Python	1	48

2		AI Artificial Intelligence with python	1	
3		C# Data Structures and Algorithms	1	
4		Cloud Computing	1	
5		Core Java Programming Revisited	2	
6		Cyber Security and Applied Ethical Hacking	1	
7		Data Structure and algorithm in Java	2	
8		Full stack generative and Agentic Al with Python	1	
9		HTML	1	
10		Introduction to cloud computing	2	
11		Introduction to Cyber Security	2	
12		Introduction to Cybersecurity	1	
13		Introduction to Java	1	
14		Introduction to Modern AI	1	
15		Java	1	
16		Java And PHP Complete Course for Java and PHP Beginners	1	
17		Java concepts	11	
18		Java Programming Fundamentals	1	
19		Java Servlets Tutorial	1	
20		Java Servlets tutorial and java Servlets courses	1	
21		Microsoft Excel 2013-Advanced	5	
22		Multithreading in java	3	
23		Python By Example	1	
24		Python for data structure, algorithms and interviews.	1	
25		Python fundamentals	1	
26		Research with AI	1	
27		SQL	1	
28		XML and Java	1	
1	5th	Cyber Security and applied ethical hacking	1	70
2		Data Analytics Essentials	2	
3		Data Analytics QLIK view	2	
4		Data Visualization using python	6	
5		Data Visualization using tableau	11	
6		Deep learning with R	1	
7		Google cloud career launchpad computing foundations track	2	
8		Introduction to cloud computing	1	
9		Introduction to Data science	1	
10		The complete PowerBI practical course	1	
11		Python Data science: Data prep and EDA with python	1	

12		Microsoft powerBI practical Data analysis and visualization	2
13		Salesforce tableau data analyst/specialist desktop Cert prep	2
14		Google cloud career launchpad data analytics track	5
15		Google cloud career launchpad cybersecurity track	6
16		Google cloud career launchpad Generative AI leader track	4
17		Hands-on Deep Learning Training	2
18		PowerBI for beginners	1
19		Machine learning with Python	19

Webinar / Seminar Attended / Hackathons/Project Competition Participations

SI NO	DATE	EVENT	Names of the Students
		III SEMESTER	
1	5th Nov 2025	National Level "IDEATHON-2025: IGNITE TO INNOVATE" , organised by DST-ITBI-GSSS (GSSSTBIF) at GSSSIETW,Mysuru.	ANANYA BALAKRISHNA HEGDE
2			SAHANA H S
3			PRIYANKA S
4			GANAVI R
5			GANAVI K S
6			AKSHITHA K J
7			ADWIKA SARASWAT
8	28th – 29th Sep 2025	"UI/UX HACKATHON", 2-day National Level Event organized by ME-RIISE FOUNDATION at Malnad College of Engineering, Hassan.	BHOOMIKA L
9			VARSHINI A
10			THANMAYA RAJ
11			AKSHATHA S KOTTUR
12			SREYA NANDI
13			MAHIMASHREE N M
14	28th – 29th Sep 2025	28 Hours National Level Event E- MINDS Hackathon 2.0 organized by department of ECE in association with GSSSTBIF at GSSSIETW, Mysuru	MEGHANA R
15			PRATEEKSHA P
16			DHANUSHREE
17	15th – 16th Oct 2025	HackNova LO, A 24-Hour National Level Hackathon organised by the Department of CSE ,Coorg Institute of Technology. Ponnampet, Kodagu.	KIRTHAN KAVERAMMA C K
18	14th Nov 2025	"PROJECT EXPO-2025" an Intercollegiate Event organized by the Department of ECE at GSSSIETW,Mysuru.	ANANYA K P
19			HAMSA T M
20			RAKSHITHA RAVI GADI
21			SINCHANA J
22			PRAGNA K V
23			CHAITHANYA L G

24			KANIKKA M S
25			MEGHANA S
26	15th Nov 2025	Prakalp, State Level Project Presentation Competition, organized by NIE IEEE , Vaidyuthak 2025 in collaboration with Department of ECE , NIE, and the IEEE Mysore Subsection , Mysuru.	SINCHANA K GOWDA
27			THANMAYE G
28			NIDHI R S
29	11th Dec 2025	"V-VISION-2025", National Level Project Expo organized by the Vidya Vikas Institute of Engineering and Technology, Mysuru	NISARGA J
30			SWATHI PRIYA A R
31			SRUSHTI N S
32			NISHMITHA J
33	21st – 22nd Nov 2025	"MRIOTHON 2.0: A 24-Hour Hackathon on AI and Cyber Security"organized by Mysuru Royal Institute of Technology, Mandya.	PRANATHI Y P
34			SUHANA S
35			MANYA
36	20th Nov 2025	"Guess Go Goof" organized by GSSSIETW by the Personality wing of APTI club, Mysuru.	LIKITHA V V
	12th Nov 2025	"Elevator Pitch" organised by GSSSIETW by the Interview Wing of APTI club, Mysuru. **Winner**	
37	26th Nov 2025	"Code Hunt" organized by GSSSIETW by the Technical wing of APTI club.Mysuru. **Winner.**	SREYA NANDI
38	21st Dec 2025	Al Tools Workshop – Live Online Session, conducted by Team LeoAxis.	NIDHI R S
39			THANMAYE G
IV SEMESTER			
1	7th – 8th Nov 2025	CICADA 24-hours Hackaton , Atria institute of technology, Bangalore.	H N NIHARIKA KOTHVAL
2			SPOORTHY T P
3			VASUDHA P
4			MISBAH MEHMOOD
5	3rd Nov 2025	NBUC Annual Event Project Expo, Nokia , Bangalore	SARANYA G
6	20th – 21st Sep 2025	DecodeX- 24 hours hackathon at BMSIT&M , Banglore	MISBAH MEHMOOD
7	11th Nov 2025	AI-Visionaries Expo 2025 organised by AIDS Dept in GSSSIETW, Mysuru. **1st prize Winners.**	PAVANI P Y
8			PATIL RAJDEEPTI DHANANJAY
9			NIKHITHA M
10	21st -22nd Nov 2025	MIROTHON 2.0 -24 hours Hackathon on AI and Cyber security, MRIT, Mysuru.	SARANYA G
11			SWATHI S
12			SNEHA PATEL A V
13			SANA ANJUM
14			SARAH MARIAM MATHEW
15			HARMAIN ZOHRA
16			DHATHRI R
17			SRISHTI KUMARI
VII SEMESTER			
1	19th Sept 2025	MyMysuru IDEATHON:Vision - 2030	AMITHA K N

2			ANANYA BINDU N
3			CHINTHANA G
4	14th Nov 2025	PROJECT EXPO 2025:- Human Detection Based Smart Energy Optimization and Automation System.	AMITHA K N
5			CHINTANA G
6			ANANYA BINDU N
7			HAMSA SURESH
8	14th Nov 2025	PROJECT EXPO 2025:-Smart Farming System for Integrated Crop and Fertilizer Recommendation with Automated Cattle Feeding.	PRATHIKSHA K S
9			CHATHURYA R
10			CHANDANA T J
11			ANKITHA Y H

FUNDED PROJECTS DETAILS

KSCST - 48th Series Student Project Presentation - Student Project Proposals approved for sponsorship

Sl. No.	Sponsoring Agent	Title	Grant	Proposed by	Guide
1.	KSCST	TRAFFIC PREDICTION AND CONTROLLING SYSTEM USING MACHINE LEARNING	Rs. 4,000/-	SANDHYA H SALUNKE ANUSHA HK DEVIKA L PRIYADARSHINI B	Dr. GURURAJ K S
2.	KSCST	REVOLUTIONIZING MEDICAL REPOSITORY SECURITY THROUGH CUSTOM BLOCKCHAIN SOLUTION	Rs. 3,500/-	ANVITHA M ANAGHA M PUROHIT SRINIDHI K M BANUSHREE H S	Dr. ANAND M

FACULTY ACHIEVEMENTS



Dr. Padmaja K

Assistant Professor, Dept.of ISE

Awarded Ph.D. in Data Science

From Christ University, Bengaluru. 8th December - 2025

Faculty Publication in Scopus/WOS, UGC/others

Sl. No.	Particulars	Count
1	**Publications - SCOPUS/UGC**	**10**
2	**Conference**	**5**
3	**Workshops/FDPs**	**12**
4	**Patents**	**2**

Faculty Publication in Scopus/WOS, UGC/others

Sl. NO	Name of the Staff	Paper Title	Journals/Books /Conference Name	DOI & Link	Date/ Status	Scopus /UGC Approved Journal	Impact Factor/ SScite score
1	Dr. Gururaj K S	Blockchain Security Schemes for IoT: A Comprehensive Review	2nd International Symposium on Collaborative Informatics, UBDTCE, Davanagere,	-	Accepted. 17th to 19th Dec 2025	Scopus Indexed	-
2	Dr. Anand M	ML-Powered Pneumonia Diagnosis: A CNN Approach for Chest X-Ray Analysis	Fifteenth International Conference on Recent Trends in Communication and Computer Networks - ComNet 2025	-	23rd August 2025	Scopus Indexed	-
		Seeing The Unseen - Deep Learning Approach For The Detection And Analysis Of Brain Tumor	Hinweis Fourth International Conference on Advances in Software Engineering and Information Technology (ASIT-2025)	-	30th August 2025	Scopus Indexed	-
3	Dr. Chaya P	An Automation for Ayurveda Drug Recommendation System using ML	Fourteenth International Conference on Recent Trends in Information Processing & Computing	-	25th Sep 2025	Scopus Indexed	-
		A Holistic Approach to Smart farming: Predictive	Fourteenth International Conference on	-	25th Sep 2025	Scopus Indexed	-

		Analytics and Automation for resource Effective Agriculture.	Recent Trends in Information Processing & Computing				
4	Dr. Padmaja K	IoT-Based Traditional Organic Implementation of Jeevamrutha Using Image Processing	IEEE COSMIC 2025	-	Accepted	Scopus Indexed	-
5	Girish S C	Bidirectional Neural Network for Speech-to-Sign and Sign-to-Speech Translation: A Multi-Modal Real-Time Communication System	International Journal of Research Publication and Reviews	-	Dec 2025	-	-
		A Hybrid Multiscale Decomposition and Deep Learning approach for Infrared-Visible Image Fusion	International Journal of Innovative Research in Science, Engineering and Technology	DOI: 10.15680/IJIRSET.2025.1412044	Dec 2025	-	-
6	Anitha Rao	Mitigating Cyber Crime Risks Through Advanced Email Sender Detection and Flood Attack Prevention	14th International Conference on Recent Trends in Information Processing & Computing.	-	25th Sep 2025	IEEE	-
		Gestron Real-Time Hand Gesture Interface For Human-Computer Interaction	6th International Conference on Smart Electronics and Communication (ICOSEC-2025)	-	26th Sep 2025	Scopus Indexed	-

List of Faculty Interaction with Outside World – ODD-2024

Sl. No.	Faculty	Event	Event Details	Date
1	Dr. Gururaj K S	Jury Member	Attended Mysore Open Hack 3.0 Hackathon organized by L & T Technology Services, Ltd, Mysuru	25th July 2025

2	Dr. Anand M	FDP	One day FDP on "Embedded Systems and Edge AI-An Industry Perspective" organized by the Department of Electronics and Communication Engineering under IETE Students' Forum, in association with Deshila Technology Research Institute, Mysuru	24th July 2025.
		Conference	Fifteenth International Conference on Recent Trends in Communication and Computer Networks - ComNet 2025, Chennai.	23rd August 2025
		Conference	Hinweis Fourth International Conference on Advances in Software Engineering and Information Technology (ASIT-2025), Mumbai.	30th August 2025
		FDP	5 days Advanced Technical program on Cloud Computing organized by WIPRO TalentNext, Chennai.	1st Dec to 5th Dec 2025
		FDP	5 days Faculty Development Program on Quantum Computing Organized by the ICFAI Foundation for Higher Education, Khalsa College for Women, in Collaboration with ExcelR Edtech Pvt. Ltd.	8th Dec to 12th Dec 2025
		CPP Program	Participated in HPE conducted CPP Program as a Mentor for the Academic Year 2024-25.	Sep 2025.
3	Dr. Chaya P			
		Conference	14th International Conference on Recent Trends in Information Processing & Computing, Bhopal India.	25th Sep 2025
4	Dr. Padmaja K	Workshop	From Bytes to Insights: A 3 Days Hands-On Big Data Analytics conducted from at GSSS Institute of Engineering and Technology For Women in collaboration with the Department of Information Science & Engineering.	8th Sep to 10th Sep 2025
5	Girish S C	FDP	One day FDP on "Embedded Systems and Edge AI-An Industry Perspective" organized by the Department of Electronics and Communication Engineering under IETE Students' Forum, in association with Deshila Technology Research Institute, Mysuru	24th July 2025.
		Certification	Generative AI for Educators Certificate	21st Aug 2025.
		FDP	One Day Training Program on VTU Consortium e-Resources organized by NIE, Mysuru	10th Nov 2025
6	Anitha Rao	FDP	Faculty Development Program on "Data	2nd June to 20th

			Science with Python" organized by WIPRO TalentNext, Chennai.	June 2025.
		Conference	14th International Conference on Recent Trends in Information Processing & Computing, Bhopal India.	25th Sep 2025
		Conference	6th International Conference on Smart Electronics and Communication (ICOSEC-2025), Trichy, Tamil Nadu, India.	26th Sep 2025
7	Harshitha M K	FDP	6 day FDP on "Big data Analytics and Parallel Computing, Tools, Techniques and Real Time Implementation" organized by East Point College of Engineering & Technology, Bengaluru	1st July to 7th July 2025.
		FDP	One day FDP on "Embedded Systems and Edge AI-An Industry Perspective" organized by the Department of Electronics and Communication Engineering under IETE Students' Forum, in association with Deshila Technology Research Institute, Mysuru	24th July 2025.
		FDP	One Day Interdepartmental event "Paurvakam 2025- Rediscovering Ancient Wisdom" organized by IKS CLUB	19th Nov 2025.
8	Manasa H R	FDP	30 hours Live Training Program on DEVOPS DECODE: Hands-on Fundamentals organized by ExcelR Edtech Pvt. Ltd.	18th June to 8th July 2025.
		FDP	6 day FDP on "Big data Analytics and Parallel Computing, Tools, Techniques and Real Time Implementation" organized by East Point College of Engineering & Technology, Bengaluru	1st July to 7th July 2025.
		FDP	5 day IEEE Quantum Lecture Series organized by Dept. of ECE, Dept of AIML & R&D Cell, HKBK College of Engineering in association with IEEE Bangalore Section.	1st Sep to 5th Sep 2025.

PATENTS

Sl. No.	Name of the Faculty	Patent Title	Date	Design Number	Status
1	Dr. Anand M	Detection And Classification Of Diabetic Retinopathy Using Deep Learning	28/11/2025	202541103159	Published
		Artificial-Intelligence-Based Pneumonia	28/11/2025	202541111097	Published

		Diagnosis Apparatus Using Convolutional Neural Networks For Chest X-Ray Analysis			

RESEARCH CENTRE ACHIEVEMENTS

No. of Research Guides - 02
No. of Research Scholars awarded Ph.D. - 02
No. of Research Scholars Pursuing Ph.D. – 02 (External Scholars)
Funds Allocated: 5 Lakhs

Research Scholars Pursuing Ph.D under ISE Research centre

Sl. No.	Name of the Research Guide	Name of the Research Student	Status	Year of Registration
1	Dr. Gururaj K S Professor and Head, Dept. of ISE	Ms. Rakshitha B H	Course work Completed	2024
2		Mrs. Swetha B S	Completed Comprehensive Viva Voce	2024
3	Dr. Manjuprasad B Professor and Head, Dept. of CSE (AI&ML)	Candidates yet to be registered		

The following Research Scholars are pursuing Research under VTU/Other Research centre:

Sl. No.	Name of the Research Scholar/ USN	Year of Registration	Status	Name of the Research Guide	Research Centre	University
1	**Girish S C** (4NI20PCS01)	2020	Completed Comprehensive Viva Voce	Dr. Jayasri B S	NIE, Mysuru	VTU University

TECHNICAL ARTICLES BY STUDENTS

DeepSeek: Pushing AI to New Frontiers Human – Like Thinking

The artificial intelligence landscape is evolving at breakneck speed, with models like OpenAI's ChatGPT and Google's Gemini leading the charge. Now, a new contender—**DeepSeek**—has emerged from China, offering a fresh approach to AI efficiency and reasoning. Founded in 2023 by **Liang Wenfeng**, DeepSeek distinguishes itself with a research-driven philosophy, prioritizing innovation over commercialization. Unlike many AI giants, its team consists largely of young researchers, including PhD holders, focused on pushing AI's theoretical boundaries.

A Smarter, More Efficient AI

Traditional AI models, such as ChatGPT, rely on **dense transformer architectures**, engaging nearly all their parameters for every query—a computationally expensive approach. DeepSeek, however, adopts a **Sparse Mixture-of-Experts (MoE)** design, functioning like a team of specialists where only the most relevant "expert" is activated per question.

For instance, when answering a medical query, DeepSeek doesn't waste resources processing unrelated data. Instead, it selectively engages **just 37 billion of its 671 billion parameters**, drastically cutting energy use while maintaining accuracy. This efficiency translates to **faster responses** and **lower operational costs**, making AI more scalable and sustainable.

Mimicking Human-Like Reasoning

Beyond efficiency, DeepSeek stands out for its **Chain-of-Thought (CoT) reasoning**. Unlike conventional AI that often delivers quick but superficial answers, DeepSeek breaks down complex questions into logical steps—sometimes even asking follow-up questions to refine its understanding. This mirrors human problem-solving, where we analyze, reconsider, and synthesize information before responding.

Additionally, DeepSeek employs **reinforcement learning (RL)**, allowing it to learn from interactions like a student refining their knowledge through feedback. Over time, this self-improvement mechanism helps the model generate **more precise and context-aware responses**.

Breaking Free from Hardware Dependencies

While most AI leaders depend on **NVIDIA's A100 and H100 GPUs**, DeepSeek has taken a bold step by using **Huawei's Ascend AI chips**. This strategic shift not only sidesteps U.S. export restrictions but also signals a move toward **technological self-reliance**. By reducing dependence on Western hardware, DeepSeek could influence the future of AI infrastructure, particularly in regions facing geopolitical trade barriers.

Ethical Considerations and Transparency

DeepSeek's rise hasn't been without scrutiny. Like many AI models trained on vast datasets, questions linger about its **data sources**, though no formal accusations have been made public. Additionally, as a China-based company, DeepSeek likely adheres to **local regulations on content moderation**, which may involve stricter filtering than Western counterparts. These factors highlight the ongoing global debate over **AI ethics, data governance, and censorship**.

A Research-First Vision for AI's Future

Founder Liang Wenfeng envisions DeepSeek as a **scientific trailblazer** rather than a purely profit-driven enterprise. This ethos is reflected in its **open-weight model releases**, fostering transparency and collaboration. Already, major platforms like **Perplexity AI** and Microsoft's **Azure** have integrated DeepSeek's technology, validating its potential.

As AI advances, DeepSeek represents a shift toward **smarter, leaner, and more adaptive systems**. By combining **MoE architecture, human-like reasoning, and hardware independence**, it challenges the assumption that bigger models are inherently better. Instead, DeepSeek proves that the next leap in AI may come from **how machines think**—not just how much they compute.

In a world racing toward artificial general intelligence (AGI), DeepSeek's approach could redefine what's possible—ushering in an era where AI doesn't just answer questions but **truly understands them**.

As a tech student witnessing this AI revolution, what excites me most about DeepSeek is its dedication to thinking differently—both literally and figuratively. Its focus on reasoning, specialized expertise, and efficient learning feels like a major leap toward AI that thinks *with* us rather than *for* us.

DeepSeek is not just another chatbot. It's a system designed to reason, learn, and evolve—challenging the norms and proving that the future of AI isn't just about raw power, but intelligent, human-like thinking.

-Dhanya R Bhat
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Neuromorphic Computing: The Future of Human-Like AI

Imagine a world where machines don't just process data—they think, learn, and adapt like humans. This is no longer just science fiction. Thanks to neuromorphic computing, we are on the cusp of a technological revolution that could redefine what it means for artificial intelligence to be "intelligent."

Traditional AI systems rely on massive power-hungry processors and static programming to complete tasks. While powerful, they struggle with real-time decision-making, learning on the fly, or understanding human emotions. Neuromorphic computing changes that paradigm entirely by mimicking the human brain's structure and function.

Why Neuromorphic Computing?

Today's world demands smarter, faster, and more efficient machines. Think of autonomous vehicles that need to make split-second decisions to avoid accidents, or robotic assistants that must respond to human emotions in real time. These scenarios require more than just computation—they require cognition.

Neuromorphic systems use artificial neurons and synapses to process information similarly to the brain. This allows machines to not only respond quickly but to learn and evolve without constant reprogramming.

How It Works

Neuromorphic computing is powered by a combination of innovative technologies:]

• **Spiking Neural Networks (SNNs):** These networks mimic biological neurons by firing signals only when necessary, vastly improving energy efficiency.
• **Neuromorphic Chips:** Processors like Intel's Loihi and IBM's TrueNorth can process sensory information in real time, enabling more adaptive AI.
• **Memristors:** These components function like brain synapses, retaining memory without needing power and allowing machines to function more independently.

Real-World Applications

Neuromorphic computing is already being tested in cutting-edge fields:
• **Robotics:** Intel's Loihi chip allows robots to learn from observation—just like children.
• **Space Exploration:** NASA is experimenting with neuromorphic chips in probes that must operate autonomously in deep space.
• **Healthcare:** Medical researchers are developing brain-computer interfaces that let paralyzed individuals control devices with their thoughts.

A Glimpse into the Future

The possibilities of neuromorphic AI are endless:
• Smartphones that recognize and respond to your emotional state.
• Wearables that detect health issues before symptoms appear.
• Autonomous drones that perform high-speed disaster rescue missions.
• Smart cities with adaptive traffic lights and energy systems.

In this future, AI won't just compute—it will understand. It will be intuitive, empathetic, and far more energy-efficient.

Challenges Ahead

Despite its promise, neuromorphic computing is still in its infancy. The hardware is complex and costly to manufacture. There's also no universal software platform, making integration difficult. As research continues, widespread adoption may still be years away.

The Next AI Revolution

As technology advances, the boundary between human and machine intelligence is becoming less distinct. Neuromorphic computing could be the bridge that brings us machines capable of thinking—not just calculating.

"The future of AI isn't just about speed and power; it's about intelligence. And with neuromorphic computing, that future has already begun." So, the question remains—**would you trust a machine that thinks like a human?**

~ By Aishwarya S L
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