



BHOJ REDDY ENGINEERING COLLEGE FOR WOMEN

ALGO SPHERE

A DOMAIN WHERE ALGORITHMS, AI, AND COMPUTATIONAL IDEAS COME TOGETHER.

INNOVATE



INSPIRE



EMPOWER



DEPARTMENT OF
**COMPUTER SCIENCE
AND ENGINEERING**
(ARTIFICIAL INTELLIGENCE &
MACHINE LEARNING)

Empowering women through
technology, innovation, and
excellence in education.

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To become a center of excellence in Computer Science and Engineering (Artificial Intelligence & Machine Learning) by developing technically proficient, innovative, and ethically responsible engineers who contribute to society through intelligent technologies.



- To provide a strong foundation in Computer Science, Artificial Intelligence, and Machine Learning through quality education and hands-on learning.
- To foster innovation, research, and problem-solving skills to address real-world challenges using AI-driven solutions.
- To nurture analytical thinking, creativity, and teamwork among students through academic and co-curricular activities.
- To promote ethical practices, lifelong learning, and adaptability to emerging technologies in the field of AI & ML.

About College

Bhoj Reddy Engineering College for Women is run by Sangam Laxmibai Vidyapeet, a registered voluntary social action group working since 1952 for empowerment of women and girls through education. The Vidyapeeth has more than 60 years of experience in the field of education.



Sangam Laxmibai Vidyapeet is a voluntary social action group working for empowerment of women and girls. Registered under the Andhra Pradesh Societies Registration Act, It is a not-for-profit organization working in the field of education since 1952.

The Management of the Vidyapeet makes every effort to fulfil the vision of its founders KV Ranga Reddy, Sangam Laxmibai, M Bhoj Reddy, Bojjam Narsimhulu, Pasham Papaiah, A Shyamala Devi, P Lalitha Devi, B Ramdev and MH Guptha who are no more with us.

The College was established in 1997. It is managed by an executive committee consisting of persons with a long experience in the field of education. Within a short period, it has emerged as one of the premier engineering colleges in the state.

The College campus has the unique advantage of being located in the heart of the city and yet free from noise and dust pollution. With considerable open space and greenery spread over 6.5 acres of land, the campus provides an ideal ambience for the engineering education of girls.

The academic performance of our students has been consistently outstanding with a pass percentage of 85 to 90.

The College Timings are 9:30 am to 4:30 pm. There will be 6 periods of 60 minutes duration in a day, with a lunch break of 60 minutes. The College attaches great importance to attendance and rewards students having good attendance. The college is firmly convinced that good attendance helps the students to perform well in their curricular, co-curricular and extra-curricular activities.

The College is offering the following undergraduate courses:

- 1.Computer Science & Engineering (CSE)
- 2.Computer Science & Engineering (AI & ML)
- 3.Electronics & Communication Engineering (ECE)
- 4.Electrical & Electronics Engineering (EEE)
- 5.Information Technology (IT)



Ramdev Indoor Auditorium



Digital Library



CSM Staff



Infrastructure

All Classrooms are equipped with LCD projectors for conducting lectures and presentations effectively. Tutorials are conducted regularly, and separate tutorial rooms are provided in each department. An open air theatre to accommodate more than 1200 is also available in the college campus. A full fledged 'Ramdev Indoor Auditorium' with a seating capacity of 300 is available for conducting curricular, co-curricular and extra-curricular activities.

Faculty

The college has a team of highly qualified and committed faculty members. Faculty development is pursued continuously through various academic and professional initiatives. The selection of faculty members is made every year by the JNTU selection committee through an open advertisement in the leading newspapers. The College encourages faculty members to pursue higher studies and research by providing appropriate support and facilities.

Academic Activities

The college has been in the forefront for organising various short-term courses, conferences, symposia, workshops, seminars and special lectures.

Student Chapters

The industrial visit to WE Hub provided students with insights into the startup ecosystem and women entrepreneurship. They learned about idea validation, business development, and real-world challenges like funding and market strategies. The visit encouraged innovation, problem-solving, and entrepreneurial thinking, while bridging the gap between academic learning and industry practices.

COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)



Computer Science and Engineering (Artificial Intelligence & Machine Learning) (CSE – AI & ML) is concerned with the design, development, and implementation of intelligent systems that can learn from data, automate decisions, and solve complex problems. This field combines core computer science principles with advanced techniques such as machine learning, deep learning, data analytics, and neural networks.

CSE (AI & ML) is a rapidly evolving domain, with innovations emerging continuously. From self-driving cars to personalized healthcare systems and smart financial tools, the field offers vast opportunities for vehicles innovation and exploration. As data becomes a crucial asset in modern society, AI and ML technologies are driving efficiency, accuracy, and automation across industries. The department is equipped with modern laboratories and tools as per academic standards, providing students with hands-on experience in cutting-edge technologies.

The scope of CSE (AI & ML) extends to advanced areas such as Natural Language Processing (NLP), Computer Vision, Robotics, Big Data Analytics, and Cloud Computing. AI is revolutionizing industries by enabling machines to simulate intelligent behaviour and make data driven decisions, while ML allows systems to improve their performance through experience. These technologies are powering innovations in healthcare diagnostics, fraud detection, smart cities, and more, pushing the limits of what machines can achieve.

Furthermore, the interdisciplinary nature of CSE (AI & ML) opens up diverse career opportunities in sectors like IT, healthcare, finance, e-commerce, cybersecurity, and research. Graduates can work as AI engineers, data scientists, ML developers, or researchers, contributing to transformative technological advancements. The demand for skilled professionals in AI and ML continues to rise as organizations increasingly rely on intelligent systems.

As the world moves deeper into the digital era, CSE (AI & ML) professionals will play a key role in shaping the future of innovation. Their expertise will help build smarter, more efficient, and sustainable solutions to real-world challenges, contributing to a technologically advanced, sustainable and intelligent society.

Program Outcomes (POs)

PO1 – Engineering Knowledge: Apply knowledge of mathematics, science, engineering fundamentals, and machine learning to solve complex problems.

PO2 – Problem Analysis: Identify, formulate, and analyze complex computing and AI/ML problems using logical and analytical approaches.

PO3 – Design/Development of Solutions: Design and develop efficient software systems, AI models, and solutions considering societal and environmental needs.

PO4 – Conduct Investigations: Perform experiments, analyze data, and interpret results using modern tools in computing and machine learning.

PO5 – Modern Tool Usage: Use appropriate tools, platforms, and technologies for software development, data analysis, and AI/ML applications.

PO6 – Engineer & Society: Apply reasoning to assess societal, health, safety, legal, and cultural issues relevant to computing solutions.

PO7 – Environment & Sustainability: Understand the impact of engineering solutions in environmental and societal contexts and promote sustainability.

PO8 – Ethics: Follow professional ethics, responsibilities, and norms in computing and AI practices.

PO9 – Individual & Team Work: Function effectively as an individual and as a member or leader in multidisciplinary teams.

PO10 – Communication: Communicate effectively with the engineering community and society through reports, presentations, and documentation.

PO11 – Project Management & Finance: Demonstrate knowledge of project management principles and apply them in software development and AI projects.

PO12 – Life-long Learning: Recognize the need for and engage in continuous learning to adapt to emerging technologies.

Program Educational Objectives (PEOs)

PEO1: Graduates will build successful careers in software engineering, AI/ML, data science, or pursue higher studies and research.

PEO2: Graduates will demonstrate professionalism, ethical values, teamwork, and continuous learning to solve real-world problems.

Program Specific Outcomes (PSOs)

PSO1: Apply knowledge of computer science and machine learning to design intelligent systems and solve real-world problems.

PSO2: Develop efficient software solutions using modern programming languages, tools, and AI/ML frameworks.

Principal



**Dr G Shyama Chandra Prasad, Ph.D.,
LISTE., Principal**

Dr.G. ShyamaChandra Prasad holds a Ph.D. in ComputerScience and Engineering (CSE) from Jawaharlal Nehru Technological University, Hyderabad (JNTUH), and is a distinguished academician with over 25 years of teaching experience. He commenced his career in academia and has served at several reputed institutions. His areas of research interest include image processing, neural networks, and machine learning. Dr. Shyama has published more than 50 research papers in various national and international journals and conferences. He has successfully supervised 10 postgraduate students and is currently supervising four Ph.D. scholars at Osmania University. Furthermore, two scholars have been awarded their Ph.D. degrees under his guidance at Osmania University. He serves as a reviewer for more than five reputed journals and is an active member of ISTE, contributing to knowledge exchange and professional development.

Principal Message

Dear Students,

Empowerment of girl students for their versatile progress through education is our cherished motto. BRECW was established to create, nurture, and shape technical professionals and leaders who contribute to an inclusive and sustainable society in a national and international perspective. To achieve this vision, we launched undergraduate engineering degree programs that nurture many vibrant and promising professionals equipped with skills to face the ever changing social, economicaland technical landscape of our country. At BRECW, we provide high-end undergraduate education and research opportunities in new frontiers of Engineering and Technology with special focus towards Leadership & Innovation. Students are provided with opportunities for interaction with the experts from the Industry through guest lectures, industrial visits, vocational training (internships), seminars and workshops etc. To align with the curricula, we have excellent faculty, state- of-the-art infrastructure and laboratories.A Spacious green campus,a well equipped library and a peaceful atmosphere ensures that learning becomes a wonderful experience.

I firmly believe that our institute is more than just a place to learn. It gives you a chance to grow by equipping you with everything you need to achieve excellence. At BRECW we ensure students to get the best start to their future career so that they could become smart and responsible citizens of our glorious country.

I wish all students a great success in their career and prosperity in their future life.

Head of Department



Dr. Seshu Bhavani Mallampati is a dedicated academician and accomplished researcher with extensive experience in teaching, research, and academic leadership. With over 18 years of experience in the field of Computer Science and Engineering, she has made significant contributions to both academic excellence and institutional development. She has guided several undergraduate and postgraduate students in their academic projects and research endeavours, helping them achieve academic and professional success. She has also organized and participated in various workshops, seminars, and faculty development programs, thereby promoting her continuous learning and innovation. She has published several papers in international journals and presents in various international conferences.

HoD Message

Dear Students,

In today's rapidly evolving technological landscape, it is essential for students to equip themselves with strong technical knowledge, practical skills, and a spirit of innovation. Our department is committed to providing a high-quality education that blends theoretical understanding with real-world applications. We strive to create an environment that encourages learning, creativity, and professional growth. In addition to academics, we emphasize the importance of co-curricular and extracurricular activities to ensure the overall development of our students.

The Training and Placement Cell plays a vital role in preparing students for successful careers through offering training programs, skill development initiatives, and placement opportunities. I encourage all students to make the best use of these resources and actively participate in all academic and professional activities. I appreciate the efforts of faculty members and students in contributing to academic excellence and the successful publication of this magazine. I wish all students a bright and successful future.

Best Wishes,

Dr. Seshu Bhavani Mallampati

FACULTY PAPER PUBLICATIONS

ACADEMIC YEAR 2024-2025

Dr M Seshu Bhavani-Associate Professor & HOD

- Design of an Integrated Model Combining Recurrent Convolutions and Attention Mechanism for Time Series Prediction – Journal of Supercomputing – ISSN: 09208542 / 15730484 – International
- Yoga Pose Detection and Correction System – IJESR – ISSN: 2320-9763 – National
- Smart Agriculture Using Machine Learning – IJESR – ISSN: 2320-9763 – National
- Smart Plant Monitoring System Using Blynk IoT – IJESR – ISSN: 2320-9763 – National
- Email Spam Classification – IJESR – ISSN: 2320-9763 – National
- AI-Powered Grocery Store Website – IJESR – ISSN: 2320-9763 – National
- Automated Blood Bank Management System – IJESR – ISSN: 2320-9763 – National

Mohd Basit Mohiuddin-Assistant Professor

- EnhanceLPR – IJESR – ISSN: 2320-9763
- SmartFuel: Fuel Consumption Prediction Model Using Machine Learning – IJMEC – ISSN: 2456-4265 – National
- OvaCare: PCOS Management App – IJMEC – ISSN: 2456-4265 – National
- Taste Hunt – Crave It, Get It – IJESR – ISSN: 2320-9763 – National
- Credit Card Fraud Detection using Machine Learning – IJESR – ISSN: 2320-9763 – National

Ms Syeda Fatima-Assistant Professor

- Social Media Sentiment Analysis – IJESR – ISSN: 2320-9763 – National
- Pneumonia Detection Using Deep Learning – IJESR – ISSN: 2320-9763 – National
- VibeSync – Mood-Based Song Recommendation System – IJESR – ISSN: 2320-9763 – National
- Real-Time Driver Drowsiness Detection System Using Facial Landmarks – IJESR – ISSN: 2320-9763 – National
- Finding Abductors Using AI – IJESR – ISSN: 2320-9763 – National
- Object Detection – IJESR – ISSN: 2277-2685 – National

FACULTY CONFERENCE PUBLICATIONS

ACADEMIC YEAR 2024-2025

Dr M Seshu Bhavani-Associate Professor & HOD

- Transfer Learning Based Intrusion Detection Systems Using Recursive Feature Elimination – CISCT 2024 – ISBN: 979-8-3503-7814-6 – DOI: 10.1109/CISCT62494.2024.11134241 – International
- A Comparative Study on the Impacts of Data Leakage During Feature Selection using the CIC-IoT 2023 Dataset – ICEES 2024 – ISSN: 2693-3942 – DOI: 10.1109/ICEES61253.2024.10776873 – International

FACULTY PAPER PUBLICATIONS

ACADEMIC YEAR 2025-2026

Dr Ashok Kumar Konduru-Associate Professor

- Enhancing Digital VLSI Circuit Debugging with Unified Neighbor Aware Graph Neural Network Based Automated Error Detection – Journal of Electronic Testing – ISSN: 1573-0727 – DOI: 10.1007/s10836-025-06204-3 – International
- Covid-19 Diagnosis Using Privacy-Preserving Data Monitoring: Explainable AI Deep Learning Model with Blockchain Security – Journal of Medical Engineering & Technology – ISSN: 0309-1902 – DOI: 10.1080/03091902.2025.2542273 – International

Faculty Contributions

List of Workshops/FDP/Refresher Courses attended by faculty

ACADEMIC YEAR 2024-2025

Dr M Seshu Bhavani-Associate Professor

- 5 day online FDP on AI insights c by Sphoorthy Engg College (14-05-2024 to 18-05-2024).
- One Week online FDP on Generative AI and its usecases by Vishwakarma Institute of technology (02-12-2024 to 06-12-2024).
- One week FDP on Generative AI Models by Vishnu college of Engineering college (21-05-2024-25 -05-2024).
- Two day FDP on Advance AI tools for Preparing research papers by Sesi Engg College(08-11-2024-9-11-2024).
- ATAL 5 Day “Innovative Approaches to Cyber Security and Digital Forensics: Tools, Techniques,and Best Practices” by Bhoj Reddy Engineering College for Women (16-12-2024-21-12-2024).
- NEP 2020 Orientation & Sensitization Programme 2-10 Dec 2024 Organized by UGC Malaviya Mission Teacher Training Centre, by Jawaharlal Nehru Technological University Hyderabad (2-12-2024 to 10-12-024).
- ATAL FDP on Research Centric approach on AI tools by NRI Instiutue of technology (20-01-2025-25-01-2025).
- 5 Day FDP on Recent Trends on Innovations in Advanced computing and intelligent systems by VIT-AP University (2-06-2025 - to 06-06-2025).

Mr Mohd Basit Mohiuddin-Assistant Professor

- (ATAL) FDP on " High performance computing for data intensive and complex AI applications" by AICT-ATAL- CBIT (02-12-2024 to 07-12-2024).
- One Week International FDP on "Recent Research Trends in Computer Science and Information Technology" by Sharda University, Greater Noida (23rd to 27th September 2024).

Ms Syeda Fatima-Assistant Professor

- NEP orientation and sensitization programme-18 organized by UGC Malaviya mission teacher training center by Jawaharlal Nehru Technological University Hyderabad (2nd December to 10th December 2024).
- FDP IRIAC –Recent trends and innovations in advanced computing and intelligent systems by VIT-AP University (2nd June to 6th June 2025).
- R PROG RAMMING AND POWER BI by BRECW.

Afsha Sultana-Assistant Professor

- Generative AI by Pantech e Learning (1 April to 6 April 2024).
- Machine Learning,IoT ,and SAP ABAP by edunet foundation (9 may 2024 to 14 may 2024).
- Research & Publications: A RoadMap by LIET (19 to 21 April 24).

ACADEMIC YEAR 2025-2026**Mohd Basit Mohiuddin-Assistant Professor**

- Harnessing Quantum Cloud Platforms: A New Frontier in Scalable Computing and Intelligent Systems by AaiCTE -ATAL ISL Engineering College (18/08/2025 to 23/08/2025).
- Reimagining The Future: Cutting-Edge Innovations in Artificial Intelligence and Machine Learning by Dept. of IT Lords Institute of Engineering & Technology (15/12/2025 to 20/12/2025).

Dr Ashok Kumar Konduru-Associate Professor

- Next Generation AI Architecture for Multimedia Data Analytics by Lakireddy Bali Reddy College of Engineering (03-11-2025 to 08-11-2025).
- ATAL FDP on Sustainable Semiconductor Technologies: Designing Energy-Efficient Devices for Green Electronics by ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (24-11-2025 to 29-11-2025).
- ATAL FDP on Artificial Intelligence: Concepts, Tools, and Emerging Applications by CHADALAWADA RAMANAMMA ENGINEERING COLLEGE (27-10-2025 to 01-11-2025).
- ATAL FDP on NEXT GENERATION SEMICONDUCTOR TECHNOLOGIES: DESIGN, MATERIALS AND APPLICATIONS by VIMAL JYOTHI ENGINEERING COLLEGE CHEMPERI KANNUR KERALA (27-10-2025 to 01-11-2025).

Mrs Lavanya-Assistant Professor

- Next Generation AI Architecture for Multimedia Data Analytics by Lakireddy Bali Reddy College of Engineering (03-11-2025 to 08-11-2025).
- ATAL FDP on Artificial Intelligence and emerging Applications by AICT-ATAL (27-10-2025 to 01-11-2025).

Ms A Kavya-Assistant Professor

- Next Generation AI Architecture for Multimedia Data Analytics by Lakireddy Bali Reddy College of Engineering (03-11-2025 to 08-11-2025).
- ATAL FDP on Sustainable Semiconductor Technologies: Designing Energy-Efficient Devices for Green Electronics by AICT-ATAL (24-11-2025 to 29-11-2025).

Sameera Begum-Assistant Professor

- Mastering Research writing: High Impact Publications and winning proposals by CBIT (17-11-2025 to 21-11-2025).
- Next-Gen Research in Computer Science and engineering by Lords Institute of Engineering & Technology (13-10-2025 to 17-10-2025).
- Generative AI by MJCET (04-08-2025 to 08-08-2025).

Dr M Seshu Bhavani-Associate Professor

- ATAL FDP on Generative AI and Large Language Models: Innovations for the Future of Education and Research by Bhoj Reddy Engineering College for Women (28-07-2025 to 02-08-2025).
- FDP on Generative AI with LLM by STEP-NITK (07-07-2025 to 11-07-2025).
- ATAL FDP on Secure and Explainable Generative AI for Medical IoT Data Analytics by National Institute of Technology Puducherry (25-08-2025 to 30-08-2025).
- A 5-Day Online FDP on “Mastering Research Writing: High-Impact Publications and Winning Proposals” by Chaitanya Bharathi Institute of Technology Proddatur (17-11-2025 21-11-2025.).

Afsha Sultana-Assistant Professor

- Next-Gen Research in Computer Science and engineering by LIET (13 to 17 oct 2025).
- AI Tools for Modern Pedagogy by Malla Reddy College of Engineering (22-07-2025 to 26-07-2025).
- Introduction to Machine Learning by NPTEL-AICTE (12 Weeks Course).

The Interview Chronicles

My Placement Journey

Getting placed at HSBC was a significant milestone for me, however what made my journey different was that I did not follow the typical approach “starting early and preparing consistently from day one” kind of path. I figured things out much closer to the placement phase and focused more on what actually mattered instead of trying to do everything. The process included problem-solving, basic programming, and a small decision-making-based assessment, but overall, it was less about knowing everything and more about how clearly I could analyze problems and communicate my approach.

When it came to interviews, the biggest advantage I had was my individual projects. Instead of relying only on college projects that many candidates commonly possess, I worked on my own projects based on what I was interested in. That made a huge difference because it gave me something unique to talk about. I was not merely explaining something I had completed as a part of my course—I was talking about something I had actually built, explored, and understood in depth. It made the conversation more natural, and I felt more confident answering questions because I knew every detail of what I had done. It also showed initiative, which I think stood out.

For juniors, I'd say do not feel pressured to follow someone else's timeline. You don't have to start extremely early, but you do need to be intentional once you start. Focus on coding practice through platforms like LeetCode to build your problem-solving skills. Work on strong communication, because being able to explain your thoughts clearly can set you apart even if your answer isn't perfect. Be active on LinkedIn and maintain a good profile, as it helps create opportunities beyond campus placements. Try to participate in as many hackathons as possible to gain practical experience and confidence.

Most importantly, don't limit yourself to just college projects. Build your own individual projects—this is what truly makes your resume stand out. Even simple projects are fine, as long as they are genuinely yours and you understand them completely. These projects give you an edge because they make your profile different and give interviewers something interesting to discuss. For me, this played a huge role in my placement.



G. Srujathi
IV CSM

My Placement Journey

-From LearningPhase to Cognizant GenC Next

For many, interview preparation starts when placements begin. But for me, it started much earlier — as a gradual process of learning, exploration and self Improvement.

From my third year, I became more serious about understanding the industry. I started attending technical workshops, webinars, and community events whenever possible. These experiences helped me move beyond textbook knowledge and understand how technology is applied in real-world scenarios.

Along the way, I connected with like-minded people who were also preparing for placements. We shared knowledge, discussed concepts, and supported each other during the preparation phase. This environment made the learning experience more engaging and manageable.

Instead of focusing only on outcomes, I focused on building my skills. I worked on improving my programming knowledge, strengthening my fundamentals, and gaining hands-on experience through projects. Although maintaining consistency was challenging at times, I ensured that I stayed focused and continued progressing.

When the Cognizant Digital Nurture Program opportunity came, I was ready to give my best. The selection process tested my aptitude, technical understanding, and problem-solving skills. I approached each round with confidence and a calm mindset.

Suggestions for Juniors:

- Start early and focus on building strong fundamentals
- Practice coding and aptitude regularly
- Participate in workshops, hackathons, and technical events
- Work on real-world projects to gain practical experience
- Learn together with friends — it makes preparation easier
- Stay consistent, even if progress feels slow
- Believe in yourself and trust the process

Conclusion:

This journey taught me that success is not about a single moment, but about continuous effort and learning. With the right mindset and consistent effort, every challenge can become an opportunity for growth.

“Small steps, consistent effort, and self-belief — that’s what led me to GenC Next.”



Anusha Kurlem
IV CSM

My Placement Journey – From Attempts to Achievements

My journey began even before joining B.Tech, right after my intermediate education, when I started exploring Web Development. During my initial years in college, academics felt manageable, and until 2nd year, learning and revising subjects was quite smooth. Things started changing when I entered 3rd year. Everywhere, the focus was on coding and DSA, and that's when I decided to shift my focus towards coding. Initially, I wasn't really interested, but I understood that it was important for placements.

To understand how things actually work, I started participating in technical coding assessments (both offline and online), hackathons, and offline placement drives from my 3rd year. These experiences helped me see the real pattern of questions, the competition level, and how interviews are conducted.

A major turning point came during my interview at Zeta Tech. I was asked DSA questions, and I could only answer basics like arrays and strings. When I was given a problem, I couldn't solve it properly. I attempted to write a code without a clear understanding of the approach. That experience made me realize the gap between knowing a concept and actually applying it. After that, I started clearing many online assessments, but I faced rejections during several interview rounds. I missed several opportunities at the interview stage, which was quite disappointing. It made me understand that clearing tests alone is not enough explaining your logic and approach clearly also matters a lot.

Then I started focusing more seriously on Python programming, practicing how to write proper code and improve my problem-solving skills. Instead of random preparation, I focused more on what companies actually expect during interviews. One important area I worked on was my project explanation.

During my final year, my efforts finally paid off. I received two offers — one as a Frontend Developer, and another opportunity through Deloitte's National Level Assessment (NLA), through which I got placed in Deloitte.

I chose to start my professional journey with Deloitte. This journey showed me that placements are not just about knowing concepts, but about how well you apply them, explain them, and keep improving with every experience.

- Not every attempt leads to success, but every experience contributes to personal and professional growth.



Yasmeen Farha
IV CSM

My Interview Preparation Journey

For many people, interview preparation begins with applying for jobs and studying technical concepts. But for me, the journey was a little different. From my third year onwards, I started attending technical events, workshops, and meetups, mostly on weekends. These events helped me connect with professionals and understand how professional technology landscape extends beyond college.

Building this network gave me a clearer picture of what to expect in the future and opened doors to more opportunities. Through these events, I also made a few friends who shared similar goals, and that made the whole journey much more enjoyable. Of course, interview preparation can be stressful at times, but I always tried to keep a calm and optimistic mindset. Instead of putting too much pressure on myself, I treated learning as something to enjoy. My friends and I practiced together regularly, discussing concepts and preparing for interviews in a relaxed and supportive way. Sometimes we were inconsistent, but we always found our way back and continued the process.

Eventually, I attended interviews with Infosys and Honeywell and was fortunate to receive offer letters from both companies. After considering my options, I chose the one that suited me best. Currently, I am working as an intern at Honeywell, which has been a great opportunity to learn and grow. That moment was highly rewarding because it reflected the effort and consistency I had invested throughout the journey.

Final year, however, was not easy to navigate—not just because of placements and interviews. It can be one of the loneliest phases, where you often feel like you are running your own race. It also provides valuable insights into relationships and expectations during the phases. This phase teaches you independence, resilience, and how to handle things on your own. So, it's important to be mentally prepared for everything, not just academics or interviews.

My advice to juniors is simple: study well, but also make the most of your college life. Make good friends, learn together, and support each other. At the same time, be strong enough to walk your path independently when needed. Always try to give your best efforts. Opportunities will come when preparation meets the right moment. Believe in yourself, stay consistent, and enjoy the learning process along the way



K Lalitha
IV CSM

Student Articles

DNA Data Storage: The Future of Memory Fits in a Teaspoon

The amount of data generated globally has grown exponentially with humanity producing more information in recent years than ever before. Photos, videos, messages, medical records, financial transactions, satellite feeds — the volume is staggering and it is only accelerating. By 2025, the world was producing roughly 2.5 quintillion bytes of data every single day. The problem is we are running out of places to put it.



B Neha Reddy
I CSM

Hard drives can degrade overtime with typical operational lifespans often ranging from several years to more than a decade depending on usage. Magnetic tape, still the most common archival medium, lasts maybe 30 years under ideal conditions. Data centres already consume around 1–2% of global electricity, and building more of them is becoming environmentally and economically unsustainable. We have a storage crisis quietly building in the background of the digital age, and our current solutions are not going to hold. DNA — deoxyribonucleic acid — is nature's own data storage system.

The basic principle works like this. Digital data is made of binary code — sequences of 0s and 1s. Scientists have developed systems that translate binary data into sequences of these four bases, synthesise the corresponding strands of DNA in a lab, and then store those physical strands. To retrieve the data, they sequence the DNA and convert it back into binary.

This is not theoretical. It is already working. Microsoft Research in collaboration with Twist Bioscience, demonstrated the storage and retrieval of hundreds of megabytes of digital data encoded in DNA. including images, music, and documents. In 2019, researchers at the University of Washington and Microsoft demonstrated a fully automated DNA data storage system — encoding, storing, and retrieving data without human intervention. In 2021, a team encoded a short film into the DNA of living bacteria, and the bacteria passed it on to their offspring. The data replicated biologically.

The advantages go beyond just density and durability. DNA requires almost no energy to maintain once synthesised. You do not need to power it, cool it, or refresh it like you do with digital storage. A vial of DNA in a cool, dry environment could preserve data for thousands of years. The challenges are real and significant. Right now, synthesising DNA is expensive. Writing one megabyte of data into DNA costs hundreds of dollars, and reading it back requires sequencing equipment that is still relatively slow and specialised. The technology is nowhere near ready for everyday consumer use.

Newly Emerging Technologies: Shaping the Future

In the 21st century, technology is evolving at an unprecedented pace, transforming the way we live, work, and communicate. Newly emerging technologies are not only improving efficiency but also opening doors to possibilities that once seemed like science fiction. From artificial intelligence to biotechnology, these innovations are shaping a smarter and more connected world.



S Pujitha Reddy
I CSM

One of the most influential technologies today is Artificial Intelligence (AI).

AI enables machines to learn from data, identify patterns and perform tasks that simulate human intelligence.

It is widely used in virtual assistants, self driving cars, healthcare diagnostics, and even personalized recommendations on apps. Alongside AI, Machine Learning is gaining importance, as it allows systems to learn from data and improve over time without explicit programming. Another breakthrough is the Internet of Things (IoT), which connects everyday devices like smartphones, home appliances, and vehicles to the internet.

This technology enables smart homes, smart cities, and efficient resource management. For example, IoT-based systems can monitor energy usage, control home security, and even manage traffic flow in urban areas. The field of Blockchain is also revolutionizing industries by providing secure and transparent systems for transactions. Initially popularized through cryptocurrencies, blockchain is now being used in banking, supply chain management, and voting systems to ensure trust and reduce fraud.

In addition, Biotechnology is making significant progress, especially in healthcare. Innovations such as gene editing, personalized medicine, and advanced vaccines are improving the quality of life and increasing life expectancy. Technologies like CRISPR are enabling scientists to modify genes and hold potential for treating certain genetic disorders. Moreover, Augmented Reality (AR) and Virtual Reality (VR) are transforming entertainment, education, and training.

These technologies create immersive experiences, allowing users to interact with digital environments in real time. They are widely used in gaming, medical training, and virtual classrooms. In conclusion, newly emerging technologies are driving innovation and redefining the future. While they offer numerous benefits, they also bring challenges such as ethical concerns, privacy issues, and job displacement.

Therefore, it is essential to use these technologies responsibly. As we continue to embrace these advancements, and strive towards understanding these technologies, students of CSE(AI&ML) branch of BRECW are participating to contribute to a smarter and more innovative Future.

Quantum AI : Understanding the Future of Intelligent Computing

What if a computer could explore all possible solutions at once instead of one by one? This question captures the idea behind Quantum AI, an emerging field that combines Artificial Intelligence with quantum computing to solve problems beyond the reach of classical systems. Artificial Intelligence (AI) has already transformed industries by enabling machines to learn from data and make decisions. However, its performance is limited by computational capabilities of classical computers, which process information using conventional architectures.



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Quantum computing introduces a new approach. Instead of using bits, it uses qubits that can exist in multiple states simultaneously through Superposition. Another property, Quantum entanglement, allows qubits to work together in a highly efficient way.

Because of these properties, Quantum AI has the potential to process certain complex problems more efficiently by exploiting quantum algorithms, making advantageous for specific complex, computational tasks. This is especially useful in areas like optimization, pattern recognition, and large-scale data analysis, where traditional AI systems often struggle.

The importance of Quantum AI arises from the increasing computational demands of modern technologies. Training modern AI models requires huge computational power and energy, and some problems—such as molecular simulations or large network optimization—are too complex for classical systems. Quantum AI offers a way to overcome these challenges by improving speed, efficiency, and problem-solving capability.

Its applications are wide-ranging. In healthcare, it can accelerate drug discovery. In finance, it can enhance risk analysis. It also has potential in climate modeling, cybersecurity, and logistics, where handling complex systems is essential. Despite these possibilities, Quantum AI is still in its early stages. Quantum computers are expensive, technically difficult to build, and prone to errors.

Organisations like IBM and Google are actively researching and developing technologies to make quantum computing more practical.

In conclusion, Quantum AI is not just an improvement over existing AI—it represents a new way of thinking about computation itself. As the technology develops, it could unlock solutions to problems that are currently impossible. For engineering students, understanding Quantum AI today means being prepared for the next major breakthrough in technology.

Driving Into the Future: How AI Powers Self-Driving Cars

Artificial Intelligence (AI) is transforming the way humans travel, and one of its most fascinating applications is in self-driving cars. These vehicles, once imagined only in science fiction, are now becoming a reality thanks to rapid advancements in AI and Machine Learning. Companies like Tesla and Waymo are leading this revolution, aiming to create safer, smarter, and more efficient transportation systems.



AI in self-driving cars refers to the use of intelligent algorithms that enables vehicle to sense its environment, make decisions, and navigate without human intervention. These cars rely on a combination of sensors, cameras, radar, and advanced software to understand the world around them. At the core of this technology is Machine Learning, where the system learns from massive amounts of driving data to improve its performance over time. Self-driving cars operate through a combination of key AI technologies:

- Computer Vision: Helps the car recognize objects like pedestrians, traffic signals, and other vehicles.
- Sensor Fusion: Combines data from cameras, radar, and LiDAR to create a complete picture of the surroundings.
- Decision-Making Algorithms: AI decides when to accelerate, brake, or turn.
- Path Planning: Determines the safest and most efficient route to the destination.

For example, systems such as Tesla Autopilot use AI based technologies assist with functions like steering and parking.

AI-powered vehicles offer several benefits:

- Improved Road Safety: AI systems have the potential to reduce accidents caused by human errors.
 - Traffic Efficiency: Optimizes routes and reduces congestion.
 - Accessibility: Helps elderly and disabled people travel independently.
 - Fuel Efficiency: Smooth driving reduces fuel consumption.
- Despite the progress, there are still challenges:
- Safety Risks: AI systems must handle unpredictable situations.
 - Ethical Dilemmas: Decisions in accident scenarios raise moral questions.
 - High Costs: Technology is still expensive to develop and implement.
 - Legal Issues: Regulations for autonomous vehicles are still evolving.

The future of AI in transportation looks promising. As technology improves, fully autonomous vehicles (Level 5 autonomy) may become common. Governments and companies are investing heavily to make roads smarter and safer. In the coming years, self-driving cars could transform cities, reduce traffic accidents, and redefine mobility as we know it.

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