

KANAD BHATTACHARYA

Computer Science & Engineering Student

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EDUCATION

Vellore Institute of Technology

B.Tech in Computer Science and Engineering

CGPA: 9.06 / 10

Key Coursework: Data Structures, Algorithms, Structured & OOP, Operating Systems, Computer Networks, Cloud Computing, Probability & Statistics

Extracurricular: The Comedy Club

Chennai Campus

Aug 2023 – 2027

EXPERIENCE

Research Intern *[Certificate]*

May 2025 – July 2025

Indian Institute of Technology, Kharagpur

Kharagpur, WB, India

Conducting research on a deep learning approach to unravel the initiation and progression of breast cancer, with a focus on identifying evolutionary trajectories using multi-omics data. Contributing to model development, data preprocessing, and an extensive literature review. A research paper based on ongoing findings is currently in preparation and is expected to result in a journal publication.

Data Science Member

Feb 2024 – Present

IEEE Robotics And Automation Society VIT Chennai Student Chapter

Chennai, TN, India

Contributed to collaborative robotics projects within the chapter, including a machine learning-based nutrition analysis project and other initiatives. Assisted in organizing technical sessions and actively participated in team discussions on robotics and automation.

Competitive Programmer

Feb 2024 – Present

Newton School Coding Club, VIT Chennai

Chennai, TN, India

Actively participate in regular coding contests, problem-solving sessions, and peer learning discussions focused on data structures, algorithms, and competitive programming platforms.

President

Apr 2024 – Present

The Comedy Club, VIT Chennai

Chennai, TN, India

Leading club operations, organizing and performing at campus-wide comedy events, open mics, and workshops to promote stand-up comedy and performance culture among students.

PROJECTS

InfraSafe: Infrastructure Risk Detection System

Feb 2025 – Mar 2025

YOLOv-based Crack Detection and Risk Assessment Platform

Developed a YOLOv-based deep learning pipeline for detecting structural cracks and assessing severity. Implemented a rule-based risk classifier and built a surveillance car prototype using an ESP32 camera for real-time monitoring. ML model and frontend were developed separately due to time constraints.

Women Safety and Crime Prevention Platform

Sep 2024 – Oct 2024

Smart India Hackathon 2024 (2nd Level Qualified)

Built a Convolutional Neural Network integrated with LSTM to detect violence against women from CCTV footage. Implemented a fully functional frontend for user alerts, emergency contact triggers, and location-based reporting to aid real-time intervention and response.

SKILLS

Languages & Platforms: Python, C, C++, Java, R, GitHub, Linux, macOS, Windows

ML & Data Science: TensorFlow, PyTorch, NumPy, Pandas, Scikit-learn, Regression & Classification, Data Structures & Algorithms

Other Skills: Problem Solving, Continuous Learning, Creative Writing