

# Ankush

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## EDUCATION

### Vellore Institute of Technology

Bhopal, India

Bachelors of Technology in Computer Science

Expected Graduation, May 2025

- **GPA:** 8.62/10
- **Related Coursework:** Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Machine Learning, Object-Oriented Programming (OOP), DBMS, Operating Systems, Data Analysis.

## SKILLS

- **Programming:** Java, XML, JavaScript, python, HTML/CSS, Rest Apis, SQL.
- **Tools & Framework:** Android Studio, Spring Boot, React.js, AWS, Docker, Git, GitHub, Postman, Linux.

## EXPERIENCE

### Joseph Cyril Bamford (JCB Motors)

Faridabad, India

Software Development Engineering Intern

Nov 2023 – Jan 2024

- Collaborated on the development of a Job portal platform using React for front-end, Node.js for backend, JWT for secure authentication, and MongoDB for data storage.
- Integrated a feature for displaying video courses to students, providing guidance on around 10 key job profiles.
- Implemented AWS cloud deployment strategies using Docker for containerization, resulting in efficient deployment, improved system uptime, and reduced load times.

## PROJECTS

### JobTracker

Dec 2024 – Jan 2024

- Developed a comprehensive Job Application Tracking System featuring an AI-powered ATS resume analyzer and intelligent interview preparation assistant.
- Implemented a Kanban board for application status management, allowing users to track their job applications.
- Created a seamless job search and application process with automated tracking and status updates.
- Tech Stack: Spring Boot, MongoDB, JWT Authentication, OpenAI, React, Vite, Tailwind CSS.

### AI Road Inspection Model

Aug 2023-Oct 2023

- Enhanced road inspection efficiency using advanced computer vision techniques to automatically detect road defects with 95% accuracy.
- Trained YOLO V5 and YOLO V8 models for object detection and classification of road anomalies like potholes.
- Leveraged Roboflow for dataset preparation with 5000 images, performed augmentation to improve the model.
- Fine-tuned the model using TensorFlow and integrated into a Streamlit application for easy access and visualization.
- Technologies: Yolo V5 and Yolo V8, Roboflow, Tensorflow, Pandas, Streamlit, Linux.

### Emotion Detection

July 2023 – Sept 2023

- Developed an Emotion Detection Android application in Java, leveraging TensorFlow Lite for on-device inference and efficient model deployment.
- Trained a predictive emotion model with 92% accuracy and integrated it into the application for real-time emotion detection.
- Tech Stack: Java, python, XML, Firebase, Android Studio, TensorFlow, OpenCV

## ACTIVITIES AND LEADERSHIP

### Vellore Institute of Technology

Bhopal, India

Teaching Assistant

Apr 2023 – July 2023

- Co-ordinated in teaching 120 students, leading to an improvement in grades and comprehension.
- Facilitated students with more than 5 assignments and provided practice tests to improve logic, syntax and to improve programming concepts, enhancing the overall technical skills.

### Android Club

Bhopal, India

Technical Lead

Apr 2023 – June 2024

- Managed a hackathon for more than 300 applicants, fostering innovation and collaboration among participants.
- Monitored 2 workshops and mentorship sessions to support participants in refining the ideas.