

AAVALA GOPI

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Education

KKR & KSR Institute of Technology & Sciences

November 2021 – May 2025

Bachelor of Technology in Electronics & Communication Engineering

Guntur, AP

Relevant Coursework

- VLSI
- Embedded Systems
- MP & MC
- Digital System Design
- Internet of Things
- Digital Signal Processing
- Signals and Systems
- Digital Image Processing

Experience

Codegnan IT Solutions

June 2025 – Present

Java Full Stack Trainee

Hyderabad, Telangana

- Currently undergoing training as a Java Full Stack Developer at Codegnan IT Solutions, focusing on both front-end and back-end technologies.
- Acquired practical knowledge in Core Java, Advanced Java, HTML, CSS, JavaScript, and SQL through hands-on sessions.
- Gaining hands-on experience in developing and integrating RESTful APIs using Spring Boot, with exposure to JDBC and database connectivity.
- Involved in daily coding tasks, debugging exercises, and preparing for real-time mini projects as part of the full stack curriculum.

Projects

Road Classification and Pothole Detection for Autonomous Vehicles | *Python, YOLO 8, Google Collab* **May 2025**

- Engineered a real-time pothole detection system using YOLOv8, tailored for unpredictable Indian road conditions.
- Trained a deep learning model with 8,000+ annotated images to maximize detection accuracy and robustness.
- Applied surface classification techniques (asphalt, cement, clay) to guide adaptive driving decisions.
- Tackled challenges in unstructured road environments with custom dataset augmentation and preprocessing.
- Enabled Level 3 autonomy support through enhanced road perception and navigation logic.

Anti-Sleeping Alarm in Cars | *Arduino, Embedded C*

November 2024

- Developed a Sleep Monitoring System for vehicles to detect driver fatigue and minimize drowsiness-related accidents.
- Utilized non-visual sensors to monitor head position, blink rate, and other physiological indicators.
- Implemented real-time algorithms to detect early signs of drowsiness based on sensor data.
- Designed alert mechanisms such as sound, vibration, and visual signals to promptly regain driver's attention.
- Enhanced safety for long-distance travel and commercial vehicle operations.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL

Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio

Frameworks/Tools: GitHub.

Certifications

- Completed Blue Prism – Intelligent Automation Virtual Internship under AICTE (March 2023)
- Conducted research internship on LIDAR at the National Atmospheric Research Laboratory (NARL)

Activities

- Competed in an IoT & ML Hackathon hosted by MAGNIS Technologies Pvt. Ltd.
- Engaged in hands-on training through PCB and Embedded Systems workshop, enhancing circuit design skills.

Leadership / Extracurricular

June 2023 – Mar 2025

Class Representative,

KITS College

- Acted as Class Representative (CR), serving as a bridge between students and faculty to ensure smooth communication.
- Coordinated academic and administrative activities, contributing to better classroom management and student support.