

AJIT ANDAVARAPU

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EDUCATION

GIET UNIVERSITY, Gunupur

Bachelor of Technology in Computer Science Engineering

2022-26

Grade: 9.07 CGPA

Gandhi Public School, Gunupur

Higher Secondary Education (CBSE)

2020-22

Grade: 9.7 CGPA

Gandhi Public School, Gunupur

Secondary Education (CBSE)

2019-20

Grade: 9.3 CGPA

PROJECT EXPERIENCE

MediAssist: Smart Medication Health Monitoring System

- Developed a Flutter-based IoT app for **medication adherence** and **real-time health monitoring**, integrating four key sensors (**temperature, SpO2, GSR, and fall detection**) with **92% accuracy**.
- Built the backend using Node.js and MongoDB, enabling **real-time alerts** via FCM, reducing missed doses by **65%** and improving emergency response time by **40%**.
- **Tested with 50+ users** over 3 months, resulting in a **50% improvement** in medication adherence.
- **Tech Stack:** Flutter, Node.js, MongoDB, Firebase Cloud Messaging, Postman

AgriFly: AI-Powered Drone for Precision Agriculture

- Built an AI-powered drone system for **precision agriculture** in apple orchards, integrating **aerial and ground data** to monitor tree health, detect pests, and manage nutrients effectively.
- Achieved **95% accuracy** in disease detection using **machine learning** and **computer vision** (**93% precision, 96% recall, 94% F1-score**).
- Deployed a **robotic cart** and **real-time dashboard**, reducing **pesticide wastage by 40%** and significantly boosting **farm efficiency**.
- **Tech Stack:** Python, Flask, OpenCV, TensorFlow, Node.js, MongoDB, Real-time Dashboard (custom-built).

SKILLS

Languages Java, Python, JavaScript, Dart, SQL, C, Shell Scripting

Frameworks React.js, Express.js, Node.js, Tailwind CSS, Flask, Flutter

Tools Git, GitHub, Postman, Vercel, MongoDB, Firebase, TensorFlow, Power BI, DevOps

Cloud AWS

Libraries Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Scipy, NLTK

ACHIEVEMENTS / CERTIFICATIONS

Winner – IEI Drone Technology Hackathon

- Created an AI-driven solution for real-time tree health monitoring, disease detection, and crop yield prediction, leveraging machine learning to optimize pesticide application and improve orchard management efficiency.

Winner – AI Hackathon

- Developed an AI-based cybersecurity solution for:
 - APK malware detection.
 - Real-time monitoring of malware activity over the network.
 - HID device and USB attack scanning and prevention.

Data Science Lead, Google Developer Groups

2024-Present

- Collaborated on AI and ML projects within the Google Developer Groups, contributing to innovative solutions and learning advanced techniques in machine learning and artificial intelligence.
- **Contributed and Organized multiple Workshops** and Events alongside other members.

Data Structures and Algorithms Using Java (NPTEL)

- **Certified with 84%** in the final exam. Gained practical knowledge in **core data structures and algorithms**, enhancing problem-solving skills through Java-based assignments and exercises.

The Complete Full-Stack Web Development Bootcamp (Udemy)

- Successfully completed this course, developing expertise in both front-end and back-end technologies such as HTML, CSS, JavaScript, React, Node.js, Express, and MongoDB. Built and deployed several full-stack web applications, gained hands-on experience in RESTful APIs, database management, and responsive web design.