ANNAREDDY HIMAJA REDDY

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SUMMARY

Electronics and Communication Engineering Under graduate seeking a Generative AI-focused Engineering role, with foundational Knowledge in AI-Assisted Programming, Generative AI, and Machine Learning. Passionate about working at the intersection of AI, Electronics, and Technology-driven Product Management. Eager to contribute to a dynamic development team while continuously improving technical and professional skills.

EDUCATION

JNTUH- University College of Engineering, Science & Technology, BTech in Electronics and Communication Engineering. 2023 - present
CGPA: 8.71/10

Sri Chaitanya Junior College, MPC 2021 – 2023
Marks Scored: 988/1000

Sri Chaitanya Techno School, SSC 2021
CGPA: 10/10

SKILLS

Languages	Python
Technical Skills	Generative AI, Machine Learning
Technical Interests	Generative AI, IoT (Internet of Things), Product Management
Tools	VS Code, Arduino IDE, MATLAB
Soft Skills	Communication, Team Collaboration, Leadership, Technical Presentation

PROJECTS

ECG Signal Processing & Ectopic Beat Classification using Machine Learning |*Team Coordinator*| *MIT-BIH Arrhythmia Dataset*

- Developed an end-to-end ECG signal processing pipeline using the WFDB library, applying Butterworth bandpass filtering (0.5–40 Hz), heartbeat segmentation, and adaptive windowing to preprocess approximately 100,000 ECG signals from the MIT-BIH Arrhythmia dataset.
- Engineered 19 discriminative features per heartbeat for five arrhythmia categories, and trained a Random Forest classifier to classify Normal, Supraventricular Ectopic, Ventricular Ectopic, Fusion, and Unknown beats, achieving 99.15% accuracy and an F1-score of 0.94.
- Designed and implemented a web-based interface for ECG feature file upload, signal visualization, and real-time display of machine learning predictions, enabling interactive analysis and model evaluation.

Tools Used: Python, WFDB, Random Forest.

Bluetooth-Controlled Smart Trolley with Obstacle Detection |*Arduino UNO* |*Bluetooth module*
Developed a prototype trolley that can be controlled through a mobile application via Bluetooth

- Enabled directional movement through a mobile application via Bluetooth (forward, backward, left, right).
- Integrated Ultrasonic sensor for obstacle detection within 15cm.
- Implemented using Arduino, Bluetooth module, Ultrasonic sensor, motor driver, and battery supply.

Tools used: C, Arduino IDE, Arduino BlueControl App

CERTIFICATIONS & EVENTS

- Generative AI Mastermind Workshop by Outskill
- Generative AI in Action by IBM
- Getting Started with Artificial Intelligence by IBM
- AI Prompts Fundamentals by Coddy