Krishna Teja Regintala

IIITDM Kurnool — Undergraduate

krishnatej976@gmail.com

9014859400 linkedin.com/in/krishna-teja-r-291678290

Objective

Enthusiastic Electronics and Communication Engineering undergraduate at IIITDM Kurnool with a keen interest in IoT, Machine Learning, Embedded Systems, VLSI design, and Data Structures & Algorithms (DSA). Currently working on an IoT project and actively working on Machine Learning projects. Skilled in programming and problem-solving. Seeking opportunities as a **Machine Learning Engineer, Embedded Systems Developer, or VLSI Design Engineer** to apply technical expertise in real-world applications.

Education

Degree	Institution	Year
CGPA/Percentage		
B.Tech (ECE)	IIITDM Kurnool	2022-Present
8.13		
HSC (MPC)	Sri Chaitanya College	2022
97.5%		
SSC (State Board)	Sri Chaitanya School	2020
97.8%		

Technical Skills

Programming Languages:
- C, C++ (DSA - LeetCode Questions), Python (ML, AI), Assembly (8086, 8051)

Microcontrollers:
- 8086, 8051, Arduino, Raspberry Pi, ATmega328P, ESP8266

Machine Learning:
- NumPy, Pandas, Matplotlib, Scikit-learn, SciPy, TensorFlow (Basics)

Electronics:
- PCB Design (KiCad), Logic Design, VLSI (Verilog), Cadence Virtuoso

Software & Tools:
- MATLAB, Keil uVision, VS Code, HFSS, Ansys, Simulink

Projects

- **Predicting Housing Prices using Regression & Feature Engineering** - Developed a machine learning model to predict housing prices based on various features such as location, size, and amenities. Implemented data preprocessing, feature engineering, and model evaluation using Scikit-learn.
- **Fake News Detection using NLP & Classification** - Built a fake news detection system using text classification techniques. Utilized TF-IDF vectorization, Logistic Regression, and Random Forest models for prediction.
- **Double Tail Comparator** - Designed and simulated an optimized double tail comparator using Cadence Virtuoso.
- **Smart Home Automation Controller** - Designed a PCB for a home automation system using ATmega328P and ESP8266 for Wi-Fi control of appliances. Implemented relay circuits, AC isolation techniques, UART communication, and EMI suppression in Kicad.
- **Accident Alert System** - Developed an accident detection system using sensors to alert emergency contacts using Arduino and Python.
- **Sign Language Glove** - Designed a glove-based gesture recognition system for translating sign language using Python and electronic hardware.
- **Spectrum Signal Analysis for Noise Detection** - Used MATLAB for Fourier Transform-based frequency analysis.
- **16-bit ALU Design in Xilinx Vivado** - Implemented ALU using Verilog, verified with waveform analysis.

Hackathons and Challenges

- **LeetCode:** Profile-Leetcode
- **Hackathons:** Amazon ML School, Ascend Mock Test Series, HackWithInfy 2025 , JAGSoM Presents: Next Gen Minds.

Workshops & Certifications

- **Workshops:** IoT Bootcamp by NIELIT Calicut
- **Certifications:** ML (Coursera), DSA (Udemy), Azure AI Fundamentals, Matlab On-Ramp

Extracurricular Activities

- Member of National Service Scheme (NSS)
- Participated in Inter-Branch Sports at IIITDM Kurnool

Languages Known

- **English** – Fluent (Professional working proficiency)
- **Telugu** – Native Speaker
- **Hindi** – Intermediate (Conversational)