Muktha Manogna Pothurajula

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Summary

ECE undergraduate with a strong foundation in electronics and programming, actively pursuing a career in software development and AI. Skilled in machine learning, data analysis, and model optimization. Experienced with C++, Python, SQL, and modern AI tools like Hugging Face and TensorFlow. Passionate about building intelligent, real-world solutions.

Education

Institute of Information Technology, SriCity — BTech, Electronics and Communication Engineering — Aug 2023 – May 2027

- Coursework: Data Structures, Basic Electronic Circuits, Embedded Systems, Machine Learning

Narayana Junior College , Intermediate — June 2021 – April 2023

- Grade: 93%
- **Coursework:** Maths, Physics, Chemistry

Narayana Olympiad School , High School — June 2020 – April 2021

- GPA: 10.0

Technical Skills

Languages: C++, C, MATLAB, Python, MySQL

Technologies & Frameworks: OOP, Pandas, Numpy, Matplotlib, Scikit-learn, Tensorflow, PowerBI, Microsoft Excel, Microsoft Word, Powerpoint, Canva,Hugging Face

Experience

Core Member, AIML domain, Connexion — August 2024 – Present

- Assisted in organizing and leading AIML-related workshops, hackathons, and coding competitions.
- Worked on projects involving machine learning models, deep learning architectures, AI-based applications, and data-driven solutions.
- Built a network of AIML enthusiasts within and outside the college by engaging in collaborations

Core Member, PR domain, EPOCH — August 2024 – Present

- Built and maintained relationships with students, faculty, and external organizations to promote events and initiatives.
- Worked closely with other domains, managed PR strategies, and ensured smooth execution of promotional activities.
- Engaged with faculty, sponsors, alumni, and student communities to strengthen relationships.

Projects

Heart Disease Prediction Model

- A Heart Disease Prediction Model uses machine learning to analyze patient data and predict the risk of heart disease for early diagnosis.
- Tools Used: Pandas, Numpy, Scikit-learn, Kaggle

Pest Detection and Disease Identification for Knee Length Agriculture Crops

- Integrated pest detection and disease identification systems into a unified solution for knee-length agricultural crops to enhance plant health monitoring.
- Tools Used: Yolo, Tensorflow, Matplotlib, Numpy

Number Plate Detection System

- A Number Plate Detection System uses cameras and computer vision to identify vehicle license plates and retrieve associated vehicle and driver details from a database.
- Tools Used: Tensorflow, IEEE

Parking Slots Management System

- A Parking Slots Management System uses software and sensors to monitor, allocate, and manage parking spaces efficiently in real-time.
- Tools Used: Flutter, MySQL

CLI ChatBot

- Built a command-line chatbot using Hugging Face models (flan-t5, falcon-7b-instruct). Implemented features like fallback handling, logging, and session memory. Tools: Python, Hugging Face,Accelerate
- Project Link- GitHub Repo
- Tools Used: Python, Hugging Face,accelerate. models like faln-t5 and falcon-7b-instruct

Trader Sentiment Analysis

- Analyzed the relationship between Bitcoin market sentiment (Fear & Greed Index) and trader behavior using historical data from Hyperliquid. Performed data cleaning, feature extraction, and trend visualization to identify how sentiment affects trading patterns.
- Project Link- GitHub Repo
- Tools Used: Python, pandas, matplotlib, Seaborn, google colab

Skills

- Time Management
- Leadership
- Team Building
- Analytical Skills
- Problem Solving