

PRENITHA SP

Enthusiastic Data Scientist and Machine Learning expert with web development experience. Skilled in analyzing datasets, building predictive models, and integrating machine learning into applications to drive business growth and innovation.

My Contact

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🐙 <https://github.com/prenitha10>

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🌐 <https://shorturl.at/Zcm8S>

Skills

- **Web Development:** ReactJS, NodeJS
- **Database:** MongoDB, Mysql
- **Python Libraries:** Pandas, Numpy, Pyautogui, OpenCV, YOLO, NLTK, Tensorflow, Keras, Matplotlib
- **Languages:** Java, C, Python, JavaScript, MatLab
- **Soft Skills:** Leadership, Public Speaking

Clubs

- **AI Association:** Newsletter Team Member (2023-2024)
- **ISTE Member**(2022-2024)

Student Chapter

- Quantum Cryptography in 6G Networks

Education Background

- **Artificial Intelligence and Data Science(BTech)** Kongu, Engineering College, Erode with CGPA of 9.22 upto 4th semester
- **12th Standard:** CS.Academy, Erode with 89.9%
- **10th Standard :** CS.Academy, Erode with 91.2%

Projects

- **Usage of Phone Detection:** Optimized a real-time phone usage detection system using OpenCV for image analysis and YOLO for accurate model prediction solutions with precision of 97%.
- **Pet Chatbot:** Developed a multilingual pet chatbot to simplify access to veterinary data using tools like Streamlit, Langchain, FAISS, and Replicate, and employed Llama-2-7b.
- **Temperature Average :** Implemented Decision Trees, Logistic Regression, SVM, Naive Bayes, and Gradient Boosting models to predict unseen city temperatures using cross-city data with MAE of 2.207.
- **CNN Classification:** Constructed a CNN-based classification model with 6 classes, integrated into an Android app using ResNet, VGGNet achieving a test accuracy of 89%.
- **Sarcasm Classification:** Utilized NLP and NLTK preprocessing techniques, combined with machine learning and deep learning algorithms, to classify real-time YouTube datasets for sarcasm detection. Achieved a top-10 ranking in the Tamil dataset competition and secured 11th place in the Malayalam dataset competition
- **Math Chatbot(Intel training program):** Fine-tuned a large language model with a specialized math dataset to create a custom chatbot that effectively solves mathematical problems in conversational contexts using Llama

Achievements

Acumen Paper Presentation:

1st Place - Sustainable Car Alignment (2022-2023)

2nd Place - Quantum Cryptography (2023-2024)

Technical Talk: 2nd Place - Generative Adversarial Networks (GANs)

Dark Pattern Hackathon: Final Round - Consumer Affairs of India

Academic Excellence Award: 2022-2023