Aryan Raj

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Technical Skills

Languages: C++, Python, JavaScript, HTML/CSS
Libraries: C++ STL, Python Libraries
Frameworks: Flask, ReactJS
Tools: Node.js, Postman, Git, GitHub, PowerBI
Cloud/Databases: MongoDB, PostgreSQL
Areas of Interest: AI/ML, Web Development

Education

VIT Bhopal University Bhopal, MP
B.Tech. in Computer Science Engineering (AI/ML Specialization) *Sep 2022 – May 2026*

- **CGPA:** 9.02

Experience

Open Source Contributor June 2024 – August 2024
GirlScript Summer of Code (GSSOC'24)

- Contributed to open-source projects in Machine Learning and Deep Learning.
- Conducted thorough testing and debugging to ensure high-quality code.
- Wrote detailed documentation and user guides.

Projects

Phishing URL Prediction Website Python, HTML/CSS, Flask, ML

- Developed an ML-based system to classify URLs as malicious or safe.
- Built a web app using Flask for real-time URL analysis.
- Integrated ML models to enhance classification accuracy.
- Designed a user-friendly UI using HTML, CSS, and JavaScript.

Chatbot Development Python, NLTK, Flask

- Developed an NLP-based chatbot for customer engagement and recommendations.
- Used NLTK for intent recognition and language processing.
- Deployed the chatbot using Flask for seamless interaction.

Sales Forecasting Python, Pandas, Time Series Analysis

- Implemented time series models to predict sales trends.
- Processed large datasets using Pandas for accurate forecasting.
- Optimized model performance using statistical techniques.

MNIST Digit Classification Model Python, TensorFlow, Keras, Deep Learning (CNN)

- Designed a deep learning model using CNN for handwritten digit recognition.
- Trained the model on the MNIST dataset using TensorFlow and Keras.
- Applied data augmentation techniques to improve generalization.
- Deployed the model for real-time digit classification.

Plant Leaf Disease Detection Python, TensorFlow, Deep Learning (CNN)

- Developed a deep learning model to classify plant diseases from leaf images.
- Used CNN-based architecture for feature extraction and prediction.
- Preprocessed image datasets to improve model training efficiency.
- Built a user-friendly interface for farmers and researchers.

Certifications

- Applied Machine Learning in Python (Coursera)
- Generative Design Foundations (LinkedIn)
- Artificial Intelligence for Students (LinkedIn)
- Postman API Fundamentals Student Expert (Postman)