Viraj Pitale

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SUMMARY

Data science student at IIT Madras with expertise in Python, machine learning, and natural language processing (NLP). Experienced in data preprocessing, model building, and deployment. Skilled in Pandas, Numpy, Scikit-learn, and NLP tools like Spacy. Seeking opportunities to apply data science skills in real-world projects.

TECHNICAL SKILLS

Programming Languages: Python, SQL

Tools & Technologies: Pandas, Numpy, Scikit-learn, TensorFlow, Keras, Spacy, Matplotlib, Seaborn, FastAPI, AWS, Jupyter Notebook

PROJECTS

Plant Disease Classification with Convolutional Neural Networks (CNN)　　　　Aug 2024 – Aug 2024
Deep Learning Project　　　　*Python, TensorFlow*
- Developed a CNN model using the PlantVillage dataset with over 2,000 images to classify plant diseases
- Achieved 98.6% accuracy and reduced loss to 0.0278 through model fine-tuning and data augmentation techniques
- Deployed the model using FastAPI and integrated it with a simple HTML/CSS website for real-time classification

Mumbai House Price Prediction　　　　June 2024 – June 2024
Predictive Modeling　　　　*Python, Scikit-learn, Pandas, Numpy*
- Created a predictive model for Mumbai house prices, incorporating data cleaning and feature engineering
- Achieved 85%-90% accuracy using the Decision Tree Regressor, optimizing model parameters for better performance
- Addressed deployment challenges with FastAPI for backend and developed a user-friendly frontend using HTML, JS, and CSS

Loan Approval Prediction Model　　　　July 2024 – July 2024
Machine Learning Project　　　　*Python, Flask, Scikit-learn*
- Engineered a loan approval prediction model using Random Forest and Gradient Boosting techniques
- Conducted data cleaning and feature engineering, achieving 98%-99% accuracy on test data
- Developed a Flask server for backend processing and designed a website to facilitate user interaction with the model

Atliq Hardwares SQL Challenge　　　　April 2024 – April 2024
Data Analytics Challenge　　　　*SQL*
- Developed and executed advanced SQL queries to analyze sales, customer, and product data for Atliq Hardwares
- Analyzed market expansion, product portfolio, cost, and sales performance to provide actionable insights for strategic decision-making
- Compiled key findings into a comprehensive presentation, effectively communicating insights and trends to stakeholders

EDUCATION

IIT Madras　　　　Chennai, India
B.S. in Data Science and Applications　　　　*June 2023 – Expected 2027*

CERTIFICATIONS

- Programming and Data Science Foundation (IIT Madras)
- Python for Data Science (IBM)
- Python Zero to Hero (GUVI)
- Basics of Exploratory Data Analysis (Great Learning)