ROHAN MOVALIYA

Ahmedabad, Gujarat   +91 76989 79159   rohanmovaliya65@gmail.com

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OBJECTIVES

I aim to leverage my expertise in AI/ML, Python development, and problem-solving to design intelligent solutions that drive innovation and business growth. I am seeking challenging opportunities where I can contribute to impactful projects while continuously advancing my technical skills in emerging technologies.

WORK EXPERIENCE

AI/ML - Python Developer, Tridhya Tech Limited   **Nov 2024 - Present**

- Utilized Python frameworks such as Django, Flask and FastAPI to build and deploy robust AI-powered web applications.
- Automated data pipelines and implemented data preprocessing techniques for optimal model performance.
- Developed, tested, and deployed scalable AI/ML models to solve complex business problems.
- Collaborated with cross-functional teams to deliver intelligent solutions tailored to client requirements.

Python Intern, Bizzappdev Systems Pvt. Ltd.   **Jul 2023 - Dec 2023**

- Developed and Maintained business applications using Odoo framework.
- Wrote efficient and scalable code in Python for various modules.
- Collaborated with the development team to troubleshoot and resolve issues.

EDUCATION

Bachelor of Technology in Information Technology   2021 - 2025
Silver Oak University   **9.91 CGPA**

Higher Secondary Certificate   2020-2021
SVP Secondary & Higher Secondary School   **77.84%**

Secondary School Certificate   2018-2019
Shree Bhojalram Vidyalaya   **81.17%**

SKILLS

- Python Programming (Django, FastAPI, Flask)
- Data Analysis (NumPy ,Pandas)
- Data Visualizations(Matplotlib, Seaborn)
- Machine Learning (Supervised / Unsupervised)
- Deep Learning (CNNs, RNNs, LSTMs)
- Natural Language Processing
- SQL
- Git & GitHub

PROJECTS

Automotive Service Management

- Implemented features for vehicle service tracking, parts inventory management, and customer appointment scheduling.
- Conducted thorough testing and debugging to ensure system reliability and efficiency.
- Technology Used: Odoo, Python, PostgreSQL, XML, HTML

AI-Based Price Suggestion for Fashion Products

- Developed an AI-powered price suggestion system that predicts product prices based on image analysis and online market trends.
- Integrated Google Vision API to extract dominant colors, object labels, and fashion attributes from images and automated web search using Selenium WebDriver to fetch pricing details from e-commerce platforms.
- Built a FastAPI-based backend to provide real-time price predictions via a REST API.
- Tech Stack: Python, FastAPI, Selenium, Google Vision API

Plan Leaves Disease Prediction (Ongoing)

- Developed a deep learning model to identify and classify diseases across 18 plant species with 38 disease categories using a dataset of 54,359 images.
- Achieved 86% accuracy using a Neural Network and 83% accuracy using Transfer Learning (MobileNet).
- Currently working on improving accuracy through hyperparameter tuning, data augmentation, and advanced architectures.
- Technology Used: TensorFlow/Keras, Python, OpenCV, and Streamlit

Biometric Authentication Using Dorsal Vein Recognition (Ongoing)

- Captured high-quality thermal images and optimized acquisition conditions for consistent results.
- Implemented YOLOv5 to accurately detect and segment the Region of Interest (ROI) for vein pattern extraction.
- Implemented image preprocessing techniques such as CLAHE, Gaussian Blur, and Otsu's thresholding for noise reduction and binarization.
- Enhance the system by expanding dataset diversity, integrating deep learning-based segmentation models, and improving robustness against environmental variations.
- Technologies Used: YOLOv5, OpenCV, PyTorch and high-resolution infrared cameras.

COURCES OR PROFESSIONAL DEVELOPMENT

100 Days of Code: The Complete Python Pro Bootcamp

- Udemy │ January 2024
- Developed a strong foundation in Python programming, covering topics such as web development, data science, automation, and more. Completed 100 days of hands-on projects and coding exercises.

ChatGPT & AI Tools

- Skill Nation │ August 2024
- Completed a live workshops on the practical applications of ChatGPT and AI tools in various industries.