Vishal Jadhav

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PortFolio

Objective

Passionate and results-driven Python Developer and Machine Learning Engineer with a strong foundation in Data Science, AI, and Deep Learning. Skilled in building scalable ML pipelines, optimizing model performance, and deploying intelligent solutions. Adept in Python (OOP + DSA), SQL, TensorFlow, and real-world AI project development including face recognition, emotion detection, and virtual try-on applications. Known for clean code, collaborative teamwork, and a growth mindset. Eager to contribute to innovative, data-driven teams.

Education

Bachelor of Engineering (B.E.) in Artificial Intelligence Machine Learning, Dec 2021 – June 2025

- **S**avitribai Phule Pune University, Maharashtra
- **Honours:** Data Science
- CGPA: BE: 9.07 SGPA | TE: 8.90 SGPA | SE: 6.6 SGPA | FE: 7.7 SGPA

HSC (12th) – Science , 2020 – 2021

- **M**aharashtra State Board, Pune
- **Aggregate:** 81.67

SSC (10th) 2018 – 2019

- **M**aharashtra State Board, Pune
- **Aggregate:** 81.40

Technical Skills

Programming Languages: Python (OOP, DSA), SQL, HTML
Libraries/Frameworks: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, OpenCV, Matplotlib, Flask,Django Seaborn, MediaPipe

Machine Learning AI: Data Cleaning, Feature Engineering, Model Tuning, Model Evaluation, Regression, Classification, Clustering
Deep Learning: CNNs, DNNs, Transfer Learning, Image Processing
NLP AI Tools: NLTK, Transformers (Hugging Face), Chatbot Design
Statistics Math: Descriptive Stats, Probability, Hypothesis Testing, ANOVA, Time Series

Tools Platforms: Power BI, Tableau, Jupyter Notebook, VS Code, Git/GitHub, Streamlit, Flask, Firebase, REST APIs
Cloud Deployment: Microsoft Azure, Google Colab
Core CS Concepts: Data Structures and Algorithms (Stacks, Queues, Trees, Graphs), Object Oriented Programming, Algorithmic Thinking
Soft Skills: Critical Thinking, Communication, Teamwork, Problem Solving, Agile Workflow

Internship Experience

Machine Learning Intern – Nextinsoft

- Designed supervised ML solutions and improved workflows through automation

Data Science AI Intern – YBI Foundation

- Conducted data preprocessing, model training and evaluation.
- Built actionable dashboards for business insights.

Machine Learning Intern – Bharat Intern

- Built classification and regression models, worked on customer churn prediction. .

Emerging Technologies Intern
- Explored cutting-edge use-cases in edge-AI, smart monitoring, and IoT.

Project Experience

GitHub

AI Realtime Monitoring System ,
- Developed a real-time face recognition-based attendance system with anomaly detection for bullying.
- Integrated CCTV feeds to auto-detect unknown individuals and track registered ones using name-based lookup
- Achieved 93 Percent accuracy with optimized MTCNN face detection pipeline
- Tech Stack: Python, OpenCV, TensorFlow, Keras.

Facial Emotion Recognition
- Built a CNN-based model to classify facial expressions from live camera feeds into 6 emotion classes.
- Achieved 88 percent accuracy on FER2013 dataset; integrated with Flask for real-time feedback in UI
- Tech Stack: Python, TensorFlow, OpenCV, Keras

Virtual Try-On System
- Created a virtual try-on system that overlays clothing on person images using segmentation and pose estimation. classes.
- Enabled interactive webcam-based clothing previews; supported dynamic resizing and alignment
- Tech Stack: Python, MediaPipe, OpenCV, Flask

Pill Detection System
- Designed a CNN-based pill detection model for pharmaceutical use-case; handled multiple pill shapes and color variations and pose estimation. classes.
- Deployed a real-time alert system for invalid/expired pills using classification confidence scores.
- Tech Stack: Python, TensorFlow, CNN, OpenCV

Certifications

- Microsoft Azure AI Fundamentals – Microsoft Learn
- Machine Learning with Python – FreeCodeCamp
- Python for Machine Learning – Udemy
- Python for Machine Learning – coretoweb
- Data Science Machine Learning – YBI Foundation
- Machine Learning Virtual Internship – Bharat Intern

Languages

- English
- Hindi
- Marathi

Interests

- AI Projects
- Travel
- Books