

# VISHAL JADHAV

Machine Learning Engineer — AI Developer

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## Professional Summary

Machine Learning Engineer with hands-on experience in developing AI-powered solutions across Computer Vision, NLP, and Deep Learning. Proven track record of building production-ready systems including real-time face recognition (93% accuracy), CNN-based classification models, and intelligent automation tools. Skilled in end-to-end ML pipelines from data preprocessing to deployment using Python, TensorFlow, and AWS.

## Technical Expertise

**Languages & Databases:** Python, SQL, MySQL, RDBMS

**ML/AI:** Machine Learning, Deep Learning, NLP, Computer Vision, TensorFlow, Scikit-learn, OpenCV

**Data Science:** Pandas, NumPy, Matplotlib, Seaborn, EDA, Statistics, Power BI, MS Excel

**Tools & Platforms:** Git/GitHub, AWS, Flask, FastAPI, Linux, MS Office

**Core CS:** OOP, DSA, Database Management

## Experience

### Machine Learning Engineer

Feb 2025 – Apr 2025

NEXTIN SOFT Pvt. Ltd.

Nashik, India

- Developed ML models using Python, Scikit-learn, and Surprise library for recommendation systems and predictive analytics
- Implemented data preprocessing pipelines and deployed models on AWS with SQL integration
- Built automation and AI projects using Deep Learning and NLP, enhancing problem-solving skills
- Technologies:* Python, Scikit-learn, AWS, SQL, Power BI, NLP, Deep Learning, Git

### Machine Learning Engineer Intern

Dec 2023 – Jan 2024

Emerging Technologies

Nashik, India

- Built ML models (Regression, Classification, Clustering) using Scikit-learn and TensorFlow achieving 85%+ accuracy
- Developed voice-enabled personal assistant covering full ML workflow from data collection to deployment
- Created custom datasets using Kaggle and web scraping for training supervised/unsupervised models
- Technologies:* Python, TensorFlow, Scikit-learn, NLTK, Pandas, NumPy

## Projects

### AI Real-Time Monitoring System | GitHub

Python, TensorFlow, OpenCV

- Built face recognition attendance system with bullying detection achieving **93% accuracy** using MTCNN and CNN
- Integrated CCTV feeds for unknown individual detection, reducing administrative workload by 60%

### Pill Detection System | GitHub

Python, TensorFlow, CNN

- Developed CNN-based pill classifier identifying pills by shape, color, and imprint with real-time alerts
- Reduced medication errors by 40% in pharmaceutical inventory management

### Virtual Try-On System | GitHub

Python, FastAPI, OpenCV

- Created real-time clothing overlay system using pose estimation and segmentation, improving customer confidence by 35%
- Enabled webcam-based previews with dynamic resizing and alignment

## Education

### Lokmanya Gopinathji Mundle Institute of Engineering Education and Research (LOGMIEER)

2021 – 2025

Bachelor of Engineering in Artificial Intelligence & Machine Learning — Minor: Data Science

CGPA: 7.61/10

### CSR Secondary and Higher Secondary School

2021

Higher Secondary Certificate (HSC) - Science

81.67%

### Ganesh Vidyalaya, Ashti, Beed

2019

Secondary School Certificate (SSC)

81.41%

## Certifications

Python Programming – Core 2 Web Pvt. Ltd., Pune

Machine Learning – Bharat Intern Pvt. Ltd.

Data Analytics – Deloitte, Forge

## Soft Skills

Problem Solving · Quick Learner · Leadership · Communication & Presentation · Team Collaboration · Time Management · Adaptability