

Yash Sunilbhai Patel

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PROFESSIONAL SUMMARY

Penultimate-year AI & Data Science student with proven experience developing and deploying end-to-end deep learning solutions. Specialized in Computer Vision and NLP, with hands-on expertise in PyTorch, TensorFlow, and MLOps tools including FastAPI, Docker, and AWS. Seeking a challenging job to contribute to cutting-edge AI applications.

EDUCATION

D.Y. Patil College of Engineering, Akurdi, Pune

Nov 2022 – Jun 2026

Bachelor of Engineering in Artificial Intelligence and Data Science

CGPA: 7.74/10 (Till Sem 6)

SKILLS

- **Programming & Data:** Python, SQL
- **Machine Learning & AI:** scikit-learn, Feature Engineering, Probabilistic Models
- **Deep Learning:** PyTorch, TensorFlow/Keras, Transfer Learning, CNNs, RNNs, LSTMs, Transformers
- **NLP:** Text Preprocessing, Sentiment Analysis, Embeddings
- **Computer Vision:** OpenCV, Image Classification, Object Detection, Grad-CAM
- **Deployment:** FastAPI, Streamlit, Docker, AWS (basic)
- **Tools:** Git, Jupyter, VS Code, PostgreSQL

EXPERIENCE

Data Science and Analytics Intern | Zidio Development

Apr 2025 – Jun 2025

Image Classification System (Month 1)

[GitHub Link](#)

- Engineered and optimized a CNN-based image classifier using TensorFlow/Keras, achieving **94.5% validation accuracy**.
- Implemented advanced preprocessing including image augmentation; integrated real-time prediction visualization.
- *Tech Stack: Python, TensorFlow/Keras, OpenCV, NumPy, Matplotlib*

Personalized Medicine Recommendation System (Month 2)

[GitHub Link](#)

- Deployed a hybrid recommendation engine for personalized treatment suggestions (5,000+ records).
- Architected REST APIs with Flask-JWT authentication and dashboards with a PostgreSQL backend.
- *Tech Stack: Python, Flask, PostgreSQL, SQLAlchemy, scikit-learn, Streamlit*

PROJECTS

DeepfakeGuard - Deepfake Detection & Content Authenticity Verification

Aug 2025 – Sep 2025

Live Demo | [GitHub Repository](#)

- Architected a deepfake detection pipeline leveraging Xception/EfficientNet CNNs achieving **98% test accuracy**.
- Complete preprocessing: video frame extraction, face detection; applied Grad-CAM for explainability.
- Containerized with FastAPI and Docker, deployed on AWS EC2 with public demo on Streamlit Cloud.
- *Tech Stack: Python, PyTorch, OpenCV, FastAPI, Docker, Streamlit, AWS*

Elevator Anomaly Alert System

Mar 2025 – Apr 2025

[GitHub Repository](#)

- Real-time anomaly detection pipeline using Isolation Forest on 10,000+ IoT data points with **99% precision**.
- Exposed model through a RESTful Flask API, returning JSON-formatted anomaly scores.
- PostgreSQL logging plus CSV fallback system, containerized with Docker.
- *Tech Stack: Python 3.9+, Flask, scikit-learn, PostgreSQL, SQLAlchemy, Docker*

CERTIFICATIONS

- [Data Science Certification – Udemy](#)
- [Interactive Dashboards with Plotly/Dash – Udemy](#)
- [SQL for Data Science – Great Learning](#)
- [Python Certification – Udemy](#)