

Smruti Katariya

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EDUCATION

G H Patel College of Engineering & Technology

B.Tech in Computer Science Engineering (CGPA: 8.45)

Anand, Gujarat

Sep 2022 – Jun 2026

G H Patel College of Engineering & Technology

Minor Degree in Electric Vehicles (CGPA: 8.40)

Anand, Gujarat

Jun 2023 – Jun 2025

PROFESSIONAL EXPERIENCE

Biraj Tech Services

AI/ML Intern

Ahmedabad, Gujarat

Feb 2026 – Present

- Contributing to FlyFi, an AI-powered aviation intelligence platform focused on real-time flight delay forecasting and traveler analytics.
- Developed forecasting workflows using FlyFi's dual-model architecture, **Vayu** and **Seer**, for airline behavior modeling and probability-based delay prediction.
- Built data processing and feature engineering pipelines using historical and live flight operational data across multiple airline routes.
- Worked on model evaluation, prompt engineering, deployment workflows, and production-grade AI integrations.

Tech Elecon

Data Science Intern

Gujarat

May 2025 – Jun 2025

- Built machine learning models for stock market trend analysis and price forecasting using historical market data.
- Developed analytical dashboards and visual reports to communicate forecasting insights and model performance.

Mirror Institute

Data Entry and Records Management Associate (Part-Time)

Nadiad, Gujarat

Nov 2022 – Dec 2025

- Managed and maintained institutional datasets while balancing undergraduate studies.

PROJECTS

FlyFi Flight Delay Forecasting System (Vayu & Seer) | Python, Machine Learning, AI

- Developed an AI-powered flight delay forecasting system using FlyFi's Vayu-Seer architecture.
- Implemented airline behavior modeling, delay propagation analysis, and probability-based delay prediction using historical and real-time flight data.
- Built feature engineering and evaluation workflows to improve forecasting reliability across airline networks.

Stock Price Analysis and Forecasting | Python, LSTM, Streamlit

- Developed an LSTM-based forecasting system using historical and live stock market data from yFinance.
- Implemented preprocessing, feature engineering, and time-series modeling pipelines for price prediction.
- Built Streamlit dashboards to visualize actual versus predicted stock prices.

Real-Time Emotion Detection App | Python, OpenCV, TensorFlow

- Developed a CNN-based facial emotion recognition system using TensorFlow and OpenCV.
- Implemented image preprocessing and real-time inference pipelines for emotion classification.

TECHNICAL SKILLS

Languages: Python, SQL, C/C++

Frameworks & Libraries: TensorFlow, PyTorch, Keras, OpenCV, Streamlit, LangChain, LangGraph, Matplotlib, Seaborn

AI/ML: Machine Learning, Deep Learning, NLP, Generative AI, RAG, Prompt Engineering, Time-Series Forecasting, Computer Vision

Tools: Git, GitHub, Jupyter Notebook, Google Colab, Docker

CERTIFICATIONS

- IBM Certified: Data Visualization with Python
- Data Visualization – Empowering Business with Effective Insights
- Completed: Introduction to Applied Business Analytics