Ankit Patil

Nashik

9422648701 ankitpatil9422@gmail.com linkedin.com/in/ankitpatil1811 github.com/Ankitvpatil1

Education

Sandip Institute of Technology and Research Centre, Nashik **2021 – 2025**
B.E. in AI and DS Engineering *CGPA: 7.9*

S.L. Mali Jr College, Taloda **2020 – 2021**
Maharashtra State Board *HSC: 86.33%*

Technical Skills

- **Programming:** Python, SQL, Java, HTML/CSS
- **Data Analysis & ML:** Pandas, NumPy, Matplotlib, Seaborn, SciPy, Scikit-learn, TensorFlow, PyTorch
- **AI & NLP:** Hugging Face, RAG, LangChain, OpenAI API, Time-series & Conditional Data Analysis
- **Cloud & Databases:** AWS (SageMaker, Glue), MySQL, PostgreSQL, GCP (basics)
- **Data Engineering:** Data Cleaning, Preprocessing, ETL Pipelines
- **Tools & Others:** Jupyter, Colab, VS Code, Git, Jira, Bitbucket, REST APIs, ChromaDB, Docker (basics)

Experience

Godigit General Insurance Limited, Bangalore **1 July 2025 – Present**
Machine Learning Intern *Bangalore*

- Developed and deployed end-to-end Python-based machine learning models for insurance claim classification and risk prediction, attaining 85% accuracy.
- Executed advanced data preprocessing, feature engineering, and exploratory data analysis (EDA) on large-scale structured, unstructured, and time-series datasets.
- Designed predictive models for fraud detection, customer segmentation, and risk scoring using Python and SQL to drive data-informed business decisions.
- Implemented robust model evaluation, monitoring, and performance tracking pipelines for production-level deployment.
- Collaborated with cross-functional teams to define business objectives and interpret analytical findings.

STSARC, Nashik **May 2024 – Dec 2024**
AI and Machine Learning Intern *Nashik*

- Designed and implemented machine learning and reinforcement learning models for analytical feasibility and proof-of-concept (PoC) projects.
- Developed recommendation and matchmaking algorithms using supervised and unsupervised learning techniques on conditional datasets.
- Handled imbalanced and missing data using SMOTE, KNN imputation, and normalization methods to enhance model accuracy and stability.
- Optimized model performance through hyperparameter tuning, automated ML pipelines, and AWS SageMaker experiments.

Projects

AcciDetect: Road Accident Detection — *Python, ML, CNN* **2025**

- Developed a data-driven AI model for real-time accident detection using Convolutional Neural Networks (CNN) on video and image datasets, leveraging Python and OpenCV.
- Applied advanced image preprocessing, edge detection, and feature extraction to improve classification accuracy and reduce false positives.
- Integrated a live alert and notification system using REST APIs to notify emergency services upon accident detection, ensuring timely response.
- Performed model evaluation with precision, recall, and F1-score metrics, achieving over 90% detection accuracy and high reliability in real-world scenarios.

Face Recognition Attendance System — *OpenCV, AI, ML* **2024**

- Developed an automated attendance system using face recognition with OpenCV and Eigenface algorithm, enabling efficient user identification.
- Implemented dimensionality reduction and feature extraction to enhance computational efficiency and model accuracy.
- Processed large-scale image datasets with normalization and noise reduction for consistent and robust training and testing.
- Validated model performance under varied lighting conditions, achieving over 95% recognition accuracy.