

HRISHIKESH PATIL

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Professional Summary

I'm a recent graduate in computer science with hands-on experience in AI and machine learning projects, including building language models and applying NLP for real-world tasks. I enjoy solving problems using data and creating practical solutions with Python and modern AI tools. I'm now looking to apply my skills and keep learning as part of a forward-thinking team.

Skills

Programming: Python, SQL
Machine Learning: Scikit-learn, XGBoost, Regression, Classification, Clustering
Deep Learning: TensorFlow, Keras, ANN, CNN, LSTM
Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn
Web Technologies: Streamlit, HTML/CSS (Basics)
Tools & Platforms: Git, GitHub, Jupyter Notebook, VS Code
Soft Skills: Problem-solving, Quick learner, Strong communication, Team collaboration

Project:

Fraud Transaction Detection System

Banks lose millions due to fraudulent transactions. AI models help catch suspicious patterns.

- Collected & cleaned 280K+ financial transaction records, handling severe class imbalance.
- Engineered features such as transaction velocity, location deviation, merchant risk score, and amount anomaly score.
- Trained ML models using Random Forest, XGBoost, and Isolation Forests.
- Implemented real-time pipeline to classify incoming transactions with < 120 ms latency.
- Built a dashboard showing incident heatmaps, fraud trends, and flagged transactions.

Document Analysis using LLMs

- Developed a Document Analysis pipeline using LLMs (OpenAI/HuggingFace models).
- Performed tasks like key info extraction, summarization, and semantic similarity checks.
- Integrated Python-based workflows to process unstructured document text into structured insights.
- Demonstrated advanced NLP capabilities with transformer-based models.

Generative AI Model from Scratch with Python

- Built a basic Generative AI model from scratch to simulate human-like text responses.
- Designed the training loop and token-level prediction for sequence generation.
- Learned core GenAI principles without relying on pre-trained APIs.
- Strengthened understanding of autoregressive models and loss functions.

Education

Bachelor of Engineering in Computer Science | 2025
Savitribai Phule Pune University | Maharashtra
CGPA: 7.5/10

Certifications

- Data Science Bootcamp (2024) | GFG: Completed comprehensive certification programs in data science, enhancing skills in data analysis, machine learning, and statistical modelling.
- SQL Certification (2024): Understanding the intermediate database management and query optimization.
- Mastering Gen AI and Chatgpt (2025) | GFG: Completed a comprehensive Generative AI program covering deep learning, supervised/unsupervised learning, self-attention models, and transformer-based architectures.