

Anurag Tiwari

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EDUCATION

Noida Institute of Engineering and Technology

Bachelor of Technology in Computer Science Engineering

Noida, India

Jun 2022 - Jul 2026

SKILLS SUMMARY

- **Languages:** Python, SQL, JAVA, Javascript
- **Frameworks:** Pandas, Numpy, Scikit-Learn, Matplotlib, Flask, FastAPI
- **Tools:** Excel, PowerPoint, MySQL, SQLite
- **Libraries:** pandas, NumPy, Matplotlib, Scikit-learn, PyTorch, TensorFlow
- **Platforms:** PyCharm, Jupyter Notebook, Visual Studio Code, IntelliJ IDEA, GitHub, Git, Postman, Mongodb Compass
- **Soft Skills:** People Management, Excellent communication

PROJECTS

AI Medical Image Analysis System | [link](#)

Sept 24- Present

Tech Stack: Python, TensorFlow, CNN, OpenCV, Flask, Vultr Cloud

- Spearheaded a Convolutional Neural Network (CNN) model using convolutional neural networks and TensorFlow/Python to detect pneumonia from X-ray images, achieving 89% prediction accuracy in controlled testing environments..
- Utilized TensorFlow and Python to build and train a deep learning model for medical diagnostics.
- Enabled real-time pneumonia diagnosis by deploying AI-powered image analysis system on Vultr Cloud using Flask API, reducing the average diagnosis time by 15 minutes and handling **real-time inferences under 500ms latency**.
- Preprocessed over **5,000 medical images** with augmentation and noise reduction, improving generalization by **12% on validation data**.
- Ranked **35th globally out of 6000+ teams** in the Vultr Cloud Hackathon for innovative application in healthcare AI.

AI Resume Screening & GenAI Resume Rewriter | [link](#)

Nov 25- Present

Tech Stack: Python, Flask, SentenceTransformers, NLP, Ollama (LLaMA3), Pandas, HTML, CSS, SQLite, GitHub

- Architected a **full-stack AI-powered resume screening platform** that performs **semantic matching between candidate resumes and job descriptions** using **SentenceTransformers and Cosine Similarity**, outperforming traditional keyword-based ATS systems.
- Designed and deployed a **GenAI-driven resume bullet rewriter** using **locally hosted LLaMA-3 via Ollama**, generating **ATS-optimized, impact-driven, quantifiable resume bullets** with zero API cost and full data privacy.
- Built an **automated skill gap analysis and skill coverage scoring engine**, delivering **real-time missing skill detection, job-specific suggestions, and resume improvement recommendations**.
- Implemented a **hybrid job ranking engine** using combined **semantic similarity and skill relevance scoring**, enabling **high-precision top-N job recommendations**.
- Deployed on a **production-grade local server**, managing **concurrent uploads, AI inference workloads, session persistence, and fault-tolerant processing**.

AI Customer Churn Prediction Platform | [link](#)

Dec 25- Present

Tech Stack: Python, SQL, Pandas, XGBoost, Flask, Streamlit, PostgreSQL, Docker

- Engineered a **full-stack AI system** to predict customer churn for a simulated B2C telecom use case, **leveraging Python, SQL, and machine learning** to enhance customer retention strategies.
- Streamlined ETL pipelines using **Python, Pandas, and PostgreSQL** to integrate multi-source data (customers, transactions, interactions) and extract key features like recency, frequency, monetary, and engagement metrics.
- Processed and trained classification models (**XGBoost, scikit-learn**) achieving over 85% ROC-AUC on test data; incorporated SHAP for model explainability, highlighting top factors driving churn risk.
- Served real-time predictions via Flask API with JSON endpoints, averaging **~300ms latency**, and visualized insights using Streamlit dashboards.
- Containerized app stack (PostgreSQL, ML API, Streamlit) with Docker for **consistent deployment across 3 cloud environments**, reducing setup time by **~80%**.

CERTIFICATES

Python for Data Science, AI & Development (IBM) | [CERTIFICATE](#)

Apr 2023- May 2023

- Mastered fundamental Python syntax, proficiently utilizing control flow, loops, functions, and data structures.
- Acquired expertise in procedural programming paradigms and associated logical concepts, enhancing capabilities and ML.

Deep Learning for Developers (Infosys) | [CERTIFICATE](#)

Sept 2024- Oct 2024

- Acquired expertise in designing, training, and evaluating deep neural networks for complex data-driven applications.
- Gained practical experience in implementing AI models, with a focus on real-world deployment and optimization.