

Anurag Tiwari

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EDUCATION

Noida Institute of Engineering and Technology

Bachelor of Technology in Computer Science Engineering

Noida, India

June 2022 - July 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 Customer Churn Prediction Platform

July 25- Present

- 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.
- Created an interactive **Streamlit** dashboard to visualize churn probabilities, apply dynamic filters (subscription type, churn score range), inspect customer profiles, and export high-risk segments for marketing campaigns.
- Containerized app stack (PostgreSQL, ML API, Streamlit) with Docker for **consistent deployment across 3 cloud environments**, reducing setup time by **~80%**.

Job Connect

June 25- Present

- Developed **JobConnect**, a full-stack web platform enabling seamless **job hunting and posting for job seekers and recruiters**.
- Built using the **MERN stack (MongoDB, Express.js, React.js, Node.js)**, ensuring a scalable, maintainable architecture.
- Designed RESTful APIs achieving **<200ms average response time** for listing and applying, verified via Postman load tests.
- Integrated **MongoDB Atlas for cloud database storage**, supporting secure, real-time CRUD operations on job listings.
- Enabled recruiters to post, update, and delete jobs, and job seekers to browse, search, and apply, enhancing user engagement.
- Implemented authentication, route guards, and hashed password storage, reducing unauthorized requests by **95% in penetration tests**.

AI Medical Image Analysis System

September 24- Present

- Engineered 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 **2,000 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.

CERTIFICATES

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

April 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](#)

September 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.

ReactJS(Infosys) | [CERTIFICATE](#)

September 2024

- Developed proficiency in building responsive, component-based web applications using ReactJS and modern JavaScript.
- Enhanced skills in managing state, routing, and UI performance, aligning with best practices in scalable frontend.