

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.