Meet Gandhi

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Education

Rochester Institute of Technology — Aug 2023 – May 2026
MS in Computer Science | ***GPA: 3.93*** | *Advanced Graduate Certificate in AI and Big Data* — *Rochester, NY, USA*

NMIMS University — Aug 2017 – May 2023
B.Tech in IT + MBA in Finance & Business Intelligence — *India*

Experience

Research Assistant — Jan 2025 – Oct 2025
Rochester Institute of Technology | *Python, IR, PyTorch, NumPy, ML* — *Rochester, NY*

- Researched Knowledge Graph Embeddings & link prediction, with advanced negative sampling strategies.
- Developed KGE ML models using **PyTorch** and negative sampling, improving ranking metrics across datasets.
- Built scalable IR-based evaluation pipelines using **FAISS** & metrics such as MRR, Hits@K, nDCG, and MAP.
- Optimized **Python/NumPy** pipelines, achieving 60% speedup in negative sample generation.

Machine Learning Intern — May 2024 – Aug 2024
Rachana Plastics | *Python, PyTorch, CNN, AWS, FastAPI* — *Mumbai, India*

- Built CNN-based defect detection models using **PyTorch** and **OpenCV**, improving accuracy by 35%
- Developed anomaly detection pipelines for operation data using Python and **AWS**, reducing downtime by 20%.
- Incorporated production monitoring APIs using **FastAPI**, enabling automated quality control workflows.

Research Analyst Intern — May 2022 – Sep 2022
ABI Analytics | *Python, Pandas, PowerBI, SQL* — *Mumbai, India*

- Built data analysis pipelines using **Python** and **Pandas** to process financial datasets of 400+ companies.
- Developed dashboards using **PowerBI** and **SQL**, improving data-driven decision making by 10%.
- Applied statistical modeling and feature analysis to identify investment opportunities and trends.

Web and App Development Intern — Jul 2021 – Oct 2021
Accruepole Pvt. Ltd. | *Java, SQL, REST* — *Mumbai, India*

- Built backend inventory system using **Java** and **SQL**, reducing manual errors by 15%.
- Developed **REST API**-driven workflows and optimized data handling, improving system efficiency and reliability.
- Implemented testing and debugging pipelines, resolving 30+ issues and increasing application stability by 40%.

Projects

Chess Similar Position Retrieval and Evaluation System | *Python, FAISS, PyTorch, AWS* — Jan 2026 – Present

- Built a large-scale similarity search system over 10Mil chess positions using **FAISS** for fast sub-second retrieval.
- Developed robust feature-based embeddings using board encoding and evaluation scores to effectively model position similarity.
- Integrated **Stockfish** evaluation engine and ranking logic to significantly improve retrieval relevance and decision support.
- Deployed scalable backend using **FastAPI** on **AWS EC2** with **S3** storage and interactive UI for real-time querying.

AI Platform for Pharmacy Document Intelligence | *Python, Docker, FastAPI, AWS, Git* — May 2025 – Aug 2025

- Built a **transformer**-based intelligent system to analyze pharmacy manufacturing documents for automated decision support.
- Developed scalable semantic retrieval pipelines using transformers over 50K+ domain-specific documents.
- Improved overall search relevance by 30% using hybrid retrieval and advanced re-ranking techniques.
- Containerized the full application using **Docker** and integrated **CI/CD** pipelines for automated **AWS** deployment.

AI-Based Poker Strategy and Player Behavior Modeling System | *Python, PyTorch* — June 2024 – Sept 2024

- Built predictive **ML** models on 120K+ poker hands to accurately predict player actions and analyze betting behavior.
- Engineered advanced features for classification including bluff detection and strategy prediction, achieving 72% accuracy.
- Designed efficient data pipelines for processing large-scale game logs and generating actionable behavioral insights.

Technical Skills

Languages: Python, C/C++, Java, SQL, JavaScript, Ruby, Ruby on Rails
ML/AI: PyTorch, TensorFlow, Transformers, NLP, Retrieval, Ranking
Backend/Cloud: FastAPI, Node.js, AWS (EC2, S3, Lambda), Docker, CI/CD, REST API
Data/Tools: NumPy, Pandas, FAISS, PostgreSQL, MongoDB, Neo4j, Git, PowerBI
Certifications: AWS Solutions Architect, KPMG Lean Six Sigma, Financial Modeling and Analysis