

RAMANJOT SINGH

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Education

Netaji Subhas University of Technology, Delhi

December 2021 – May 2025

B.Tech in Computer Science & Engineering

8.35/10 CGPA

Sant Gyaneshwar Model School, Delhi

July 2018 – March 2020

Higher Secondary Education

Class 12th – 91.4% | Class 10th – 94.6%

Work Experience

Zinnia

January 2025 – July 2026

Software Engineer – Gen AI

Intern: Jan 2025 – Jul 2025 — Full-Time: Jul 2025 – Jul 2026

- Architected a multi-tier document classification pipeline (barcode → OCR → semantic search → LLM fallback) processing **~8K–10K documents/day** (~2.5M/year) for insurance and financial workflows.
- Achieved **85–90% straight-through processing (STP)**, significantly reducing manual review effort and operational costs.
- Built **Power BI** dashboards on top of pipeline logs (PostgreSQL/MongoDB) to track STP rate, document throughput, fallback/error trends, and per-stage latency, enabling real-time visibility for ops and stakeholders.
- Built semantic classification using **text embeddings + Qdrant vector search** as intelligent fallback; added LLM-based validation layers with confidence thresholds and critic-model checks for safe, auditable outputs.
- Designed event-driven, serverless architecture using **AWS Lambda** with fault-tolerant processing, timeout-aware execution, and multiprocessing for high-throughput document workflows.
- Engineered a production-grade **RAG pipeline** using **OpenAI embeddings + Qdrant** for accurate Q&A over large-scale insurance document corpora; built LLM-powered multi-document comparison workflows for cross-policy analysis.
- Built scalable PDF ingestion pipelines using **Django, FastAPI, Celery, PostgreSQL, MongoDB, Redis, and AWS S3**; designed chunking, embedding, and retrieval pipelines optimized for low-latency, high-precision enterprise use.

Projects

Hybrid Deep-Learning for Stock Forecasting — Python, TensorFlow, Keras, XGBoost, scikit-learn

- Developed an advanced stock price prediction model integrating **LSTM, XGBoost, and anomaly detection** (Isolation Forest, Autoencoder) over **10+ years** of market, fundamental, and macroeconomic data.
- Implemented Attention-based LSTM reducing RMSE by up to **67.6%** (Tesla), **44.9%** (Amazon), **60.6%** (Nvidia); achieved R^2 scores up to **0.99** (Apple) and **0.97** (Google, Tesla, Nvidia) with **7%** improvement in R^2 .

Census Insight Agent — Python, FastAPI, LangGraph, Vertex AI, Qdrant, Docker

[Source Code](#)

- Built a citation-grounded **LangGraph agent** over 341 pages of Census reports, combining **Vertex AI dense embeddings**, BM25 retrieval, and Qdrant reciprocal-rank fusion with per-entity evidence reservation for reliable multi-state comparisons.
- Designed an end-to-end provenance chain from PDF checksum and page-bounded chunks to verified claims and citations; added one-shot citation repair, structural refusals, and an isolated, network-disabled **Python executor** for generating validated charts and tables.

Technical Skills

Data & Visualization: Power BI, SQL, Data Modeling

Languages: Python, C++

AI / ML: LLMs, RAG, Prompt Engineering, Embeddings, Vector Search, Semantic Classification, OCR

Frameworks & Libraries: FastAPI, Django, LangChain, Celery, React

Databases & Search: PostgreSQL, MongoDB, Redis, Qdrant

Cloud & DevOps: AWS (Lambda, S3, EC2), Docker

CS Fundamentals: DBMS, OS, OOP, System Design

Achievements

- Mastered **700+** DSA questions across **LeetCode** and **GFG**.
- Achieved **AIR 4766** in **JEE Mains**, surpassing over **1 million** students.
- Attained **AIR 6212** in **JEE Advanced**, among **200K** students qualified from **1 million** candidates.

Extra-Curricular

- Served as **Placement Coordinator**, managing placements for **200+** students and coordinating with **10+** companies; organized recruitment drives and facilitated end-to-end interview processes.
- Mentored **50+** juniors in DSA concepts through dedicated teaching sessions.
- Consistently publish on **LinkedIn** accumulating **2M+** views and **17K+** followers.