Aakshar Garg

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EDUCATION

Maharaja Agrasen Intitute of Technology — Delhi, India
B.Tech in Artificial Intelligence & Machine Learning — *2022 – 2026*

Modern School Barakhamba Road — Delhi, India
Senior Secondary (XII – CBSE, PCM + CS) — *2008 – 2022*

SKILLS

Skills & Tools: LangChain/LangGraph, ChromaDB, FAISS, RAG Engine, GenAI, LangChain, FastAPI, Celery, Streamlit, Web Crawling, MySQL, PostgreSQL, Data Wrangling ,
Data Analytics, Power BI, Tableau, Excel, Power Query, DAX, Docker, Git, GitHub
Programming & Libraries: Python, C/C++
Soft Skills: Leadership, Teamwork, Communication, Report Writing, Problem Solving

CERTIFICATIONS

Google | Data Analysis for Data-Driven Decisions

Google | Foundations of Data

Fynd Academy | Data Analytics using Sql and Pandas

EXPERIENCE

TATA AutoComp Systems ltd. | *AI Intern* — Oct 2025 – Nov 2025
- Performed automated **data extraction** from unstructured data sources.
- Carried out **data wrangling, EDA, Feature engineering** for ML ready dataset.
- hosted and **mongodb server** and implemented **Ensemble Learning** for POC and deployment.
- **Interacted** with client frequently, discussing deadlines and RFPs to avoid discrepancies.
- Worked on various stack/tools like **mongodb, SQL, PowerBI, Python, noSQL, ML, XGBoost, AI Agents**.

Amiscent | *Data Analyst Intern* — March 2025 – May 2025
- Maintained and optimized the company's candidate-employer matching database using **MySQL**.
- Built interactive **Power BI dashboards** with **DAX** to track hiring KPIs and recruiter efficiency.
- Performed **exploratory** data analysis and **data wrangling** to uncover patterns in candidate behavior.
- Automated **ETL** workflows to clean, transform, and integrate data from multiple sources.

Alphadroids | *Robotics Developer Intern* — May 2024 – June 2024
- Created scalable **Python** scripts using **OOPs**, reducing simulation-hardware delay by 40%, and integrated external APIs and **SDKs** for automation systems.
- Implemented Nav2 Stack and LiDAR SLAM, Behavior Trees in ROS 2, and fine-tuned AMCL parameters using data-driven testing for enhanced navigation accuracy, decreasing **RPA** Workflow delay by 40% for robotics hardware and simulations.
- Led technical evaluation **reports** to guide tool and stack decisions, and documented system behaviors for reusable deployment across simulation and real-world environments.

PROJECTS

AutoRFP-GenAI Framework (GITHUB) | ***Tools:*** *LangChain, FastAPI, Docker, ChromaDB, Celery*
- CURRENTLY UNDER DEVELOPMENT.
- Developing an **agentic AI** system with a **Streamlit** UI that autonomously **crawls** government procurement portals to discover **new RFP** sources.
- Implementing intelligent URL and RFP classification using LLM agents **(Ollama + LangChain)** combined with ML similarity methods like **TF-IDF**, **Jaccard similarity**, and **vector embeddings**.
- Developing scalable backend using **ChromaDB**, **Redis**, **FastAPI**, and **Docker**, delivering prioritized RFPs autonomosly.

RAG based GPU Advisor (GITHUB) | ***Tools:*** *LangChain, HuggingFace, FAISS, Groq, FastAPI, StreamLIT*
- Developed a full-stack GPU recommendation and research system using **FastAPI**, Streamlit, and Python.
- Implemented a **Retrieval-Augmented Generation** (RAG) pipeline with **LangChain**, **FAISS**, and **SentenceTransformers** for PDF-based question answering.
- Integrated **Groq** LLMs to generate concise GPU insights and recommendations based on user constraints.
- Built a **production-ready backend** API on Render and a responsive frontend with real-time GPU retrieval and vector search.

Netflix Dataset Analysis (Advanced SQL) | ***Tech Stack:*** *SQL, SSMS, Python, Pandas, Excel(VBA), Data Wrangling*
- Executed **complex SQL** queries to extract **KPIs** and actionable insights.
- Utilized **SSMS** and **Excel** to perform data cleaning and visualization.
- Extracted important business details utilizing various important concepts of SQL such as Data Filtering, Aggregation & Grouping, String Functions, Nested Queries, Type Casting, Conditional Logic, CTEs.

COMPETITIONS

Flipkart | *Flipkart GRID 5.0 finalist* — Sept 2023 – Jan 2024
- Developed a **6-DOF Robotic Arm** using **Python** and **C++** from scratch. Implemented **AI&ML** based object detection and **image segmentation** using **YOLOv8** to extract and isolate payload surfaces **decreasing delay by 60%** and improving **accuracy by 50%**.
- Processed **point clouds** for Octomap generation and TF (transform) calculation using PCL, Open3D, and **clustering techniques** like **DBSCAN** and **KMeans** for nearest neighbour and noise filtering.
- Developed codes in **Python and C++** for surface extraction, point cloud filtering and environment mapping in ROS.

LEADERSHIP EXPERIENCE

President | *A.T.O.M Robotics Lab* — March 2024 – Present
- Led multiple technical projects including autonomous robots, AI-based systems, and hardware-software integration tasks, managing cross-functional teams of 60+ students.
- Secured funding and material support for lab initiatives.
- Coordinated sponsorships and organized 5+ intra-college events.