

MOHD SAQIB

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Education

Faculty of Engineering and Technology Jamia Millia Islamia, New Delhi, India	2022 - 2026
• B-Tech in Computer Engineering CGPA: 8.40 (current)	(expected)
Indian Institute of Technology, Madras, India	2024-2027
• BS in Data Science and Applications(Online) CGPA: 9.0	(expected)
Rajkiya Pratibha Vikas Vidyalaya Lajpat Nagar School, New Delhi, India	2020- 2021
• CBSE (Class XII with PCM), Percentage: 94 %	
Govt Boys Senior Secondary School Jangpura, New Delhi, India	2018 - 2019
• CBSE (Class X), Percentage: 93.4%	

Skills

Languages:

English, Hindi, Urdu, Arabic

Programming Languages:

C++, C, Python, R, JavaScript, Java, SQL

Web Development:

HTML, CSS, Bootstrap, JavaScript, React.js, Node.js, Express.js, Jinja2, Flask

Databases:

MySQL, MongoDB, SQLite

Data Science & Machine Learning:

NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, XGBoost, Jupyter Notebook

Cloud & DevOps:

AWS, Google Cloud Platform (GCP), Docker, Kubernetes, Git, GitHub

Tools & IDEs:

VS Code, Postman, Excel, PowerPoint, Redis, Celery, Chart.js, ReportLab

Soft Skills:

Problem Solving, Data Structures & Algorithms (DSA), Team Collaboration, Time Management, Critical Thinking, Leadership, Emotional Intelligence

Special Interests:

Quantum Computing, Automation Agents, LLM Integration (e.g. GPT), Prompt Engineering

Work Experience

Agnirva.com Space Community Internship	June 2024 - July 2024
• Gained comprehensive knowledge in satellite communication, spacecraft systems	
• Demonstrated strong potential and capacity to apply space technology knowledge in the future.	

Projects

Quiz Master V2 – Multi-User Exam Portal	June'25
• Developed a full-stack multi-user web app for quiz management using Flask (API) , VueJS (UI) , SQLite , Redis , Celery , and Bootstrap , supporting both admin and user roles.	
• Implemented complete role-based access control: admin creates subjects, chapters, quizzes, and MCQs , while users register, attempt timed quizzes, view history, and export results.	
• Integrated async background jobs using Redis + Celery for:	
○ Daily Google Chat/email reminders to users about new quizzes	

- **Monthly user activity reports** via email.
- **CSV exports** of quiz history (for both admin and users)
- Added performance optimization via **caching, summary charts, and responsive UI**, ensuring smooth functionality across devices and platforms.

ML Regression Project – Kaggle Competition

May'25

- Participated individually in a **Kaggle-hosted regression competition** as part of the Machine Learning Project course; built and evaluated multiple ML models (Linear Regression, SVM, KNN, MLP, Ensembles) to improve prediction accuracy.
- Performed **end-to-end ML pipeline**: data loading, EDA, preprocessing, model training, hyperparameter tuning, and cross-validation, **using scikit-learn, XGBoost, pandas, seaborn, matplotlib**.
- Achieved a final submission score **above 0.45 cutoff**, meeting all milestones and eligibility criteria for viva; demonstrated understanding of model evaluation, overfitting handling, and feature engineering.
- Successfully defended **model approach in Level 1 & 2 viva exams**, showcasing an understanding of algorithm internals, mathematical foundations, and practical deployment considerations.

Business Optimization for Local Electronics Retailer

Mar'25

- Collected and digitized 30+ days of real-time sales and inventory data from a local shop, enabling structured analysis using Excel, Google Sheets, and Python (pandas, matplotlib, seaborn).
- Performed sales, inventory, and profit margin analysis through visual tools like heatmaps, turnover charts, and trend lines to identify inefficiencies and price-sensitive consumer behavior.
- Proposed actionable strategies including digital inventory tracking, pricing optimization, and UPI-based discounting, tailored to the shop's operations.
- Successfully improved sales and digital payment usage; the shop adopted structured data practices, resulting in better inventory planning and improved profit margins.

LLM-based Automation Agent

Jan'25

- Built a robust **automation agent using GPT-4o-mini** that accepts plain-English tasks and executes them via an API (`/run?task=...`), returning verifiable results.
- Implemented **10 real-world Ops tasks** (file formatting, data parsing, log extraction, JSON sorting, SQL querying, markdown indexing) using shell tools, Python, and LLMs as task interpreters.
- Extended support for business automation including Git commits, API fetches, image compression, and CSV filtering—while enforcing security constraints like no data deletion or external access.
- Dockerized and deployed the application using AI Proxy Token integration and verified via automated testing scripts

TDS Solver – LLM API for Assignment Questions

Feb'25

- Developed and deployed a **production-ready REST API (/api/)** that answers **assignment questions from 5 graded sets**, using **LLM-based inference** (via GPT-4o-mini).
- Supported **file uploads (e.g., .csv, .zip)** via `multipart/form-data` and used programmatic parsing and extraction to return **precise answers** in JSON format.
- Deployed the app on **Vercel** with public access and shared **GitHub repo (MIT license)** meeting all submission criteria (testable endpoint + clean API response).

- Enabled fast, scalable model-backed answers suitable for academic automation and passed evaluation against randomized test questions.
- (`validate.py`, `run.sh`) for 100% task accuracy.

Canteen Management System

May'24

- Designed and developed a scalable system to manage **real-time orders and inventory** across **4 parallel canteens**, optimizing service speed and operational control.
- Enabled **multi-canteen handling**, dynamic menu updates, and livestock tracking with role-based access for admins and users.
- Integrated a clean, responsive UI with **Bootstrap**, ensuring a seamless user experience for order placement and inventory overview.
- **Tech Stack:** Node.js, Express.js, MySQL, HTML, CSS, JavaScript, Bootstrap.

Smart Home Services Platform

Sep'24

- Developed a **multi-role web application** to connect customers with home service professionals (e.g., painting, cleaning, Wi-Fi setup), with dedicated dashboards for **Admin, Users, and Service Providers**.
- Implemented core features including **user authentication (Flask-Login)**, **service booking**, **real-time dashboards**, and **PDF report generation**, using a well-structured **SQLite database** and foreign key relationships.
- Integrated **search**, **models**, and **analytics** with **JavaScript**, **Chart.js**, and added **dynamic HTML rendering** via **Jinja2 templates** and **Bootstrap for responsive design**.
- **Tech Stack:** Flask, SQLite, Flask-Login, Jinja2, Bootstrap, JavaScript, ReportLab, Chart.js.

Academic and Extracurricular Achievements

- GATE CS&IT (2025) qualified: CRL- 19312 among 1.7 lakh students
- JEE Advanced(2022) qualified: **CRL - 24106** among 1.6 lakh students
- Jee Main(2022): **CRL -13654** among 10 lakh students
- Completed Memorization of the Qur'an

Relevant Coursework

Core Computer Science:

Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, System Software, Compiler Design, Database Management Systems, Microprocessors, Software Engineering, Computer Organization, Computer Architecture

Programming & Tools:

Programming in Python, Programming Concepts using Java, Programming, Data Structures & Algorithms in Python, Tools in Data Science, Linux Fundamentals

Data Science & AI/ML:

Machine Learning Foundations, Machine Learning Techniques, Business Data Management, Statistics for Data Science I & II, Mathematics for Data Science I & II

Mathematics & Theoretical Foundations:

Discrete Mathematics, Engineering Mathematics I–IV, Automata Theory, Fundamentals of Computing, Computational Thinking

Soft Skills & Cognitive Science::

Communication Skills, Emotional Intelligence, Introduction to Psychology