Mehak Sharma

Noida, Uttar Pradesh • mehaksharmastu@gmail.com • LinkedIn• Github

Education

JSS Academy of Technical Education, Noida, Uttar Pradesh	*2021 – 2025*
Bachelor of Technology in Computer Science and Engineering	***GPA: 7.10/10***
Cambridge School Noida, Uttar Pradesh	*2020 – 2021*
Higher Secondary School	***Percentage: 86.2%***
Cambridge School Noida, Uttar Pradesh	*2018 – 2019*
Secondary School	***Percentage: 92.2%***

Technical Skills

Programming & Scripting: Python, JavaScript, C/C++, SQL

Web & Full-Stack Development: Django, React.js, Next.js, REST APIs, Firebase

Data Engineering & Databases: SQL, ETL fundamentals, MySQL, MongoDB, data modeling, API integration

Data Analysis & Visualization: Pandas, NumPy, Scikit-learn, ML, NLP, LLMs, RAG, Power BI, Tableau, Excel

Cloud & DevOps: AWS, Docker, Git, GitHub, CI/CD Basics, Linux

Other Tools & Practices: VS Code, SAP S/4HANA fundamentals, Jupyter, Postman, SDLC, Agile, Testing, Documentation

Experience

CDAC (Centre of Development of Advanced Computing)	**May, 2025 - November, 2025**
SNLP Trainee - Machine Learning and NLP	*Noida, India*

- Developed a Django-based Multilingual Translation Management System with API-driven processing, sentence-level editing, and aligned source–target data storage.
- Implemented role-based authentication and workflow management for task assignment and progress tracking.
- Built a translation interface with document upload, automated segmentation, and human-in-the-loop editing, streamlining operations.
- Integrated admin dashboards and analytics using Django ORM and REST APIs to monitor productivity and user activity.
- Enhanced system performance, linguistic accuracy, and security with multilingual dictionary support, chatbot feedback, CSRF protection, session management, and cache control.

Projects

DocBot AI - AI Medical Chatbot with RAG | *Python, Hugging Face, LangChain, RAG, NLP* Source Code

- Built an end-to-end AI medical assistant that provides context-aware, accurate responses to patient queries.
- Integrated NLP pipelines for symptom understanding, knowledge retrieval, and query resolution, enabling automated, real-time healthcare support.

MockMate - AI Recruiter Voice Agent (Full-Stack SaaS) | *Next.js, Vapi.ai, FireBase View*

- Built and deployed a Full-Stack SaaS platform (Next.js/Supabase) featuring an autonomous voice agent powered by Vapi.ai.
- Engineered the agent to conduct real-time, conversational interviews and use LLMs to generate structured feedback and skill ratings.
- Implemented core SaaS features, including user authentication and a usage-based credit/billing system.

Customer Churn Analysis & Business Intelligence | *Python, SQL, Power BI, Scikit-learn, Pandas, Matplotlib* View

- Developed a predictive churn model (85% accuracy) to identify high-risk customer segments, supporting data-driven retention strategies.
- Extracted, queried, and analyzed 10,000+ customer records using SQL to identify behavioral patterns, spending trends, and actionable insights.
- Designed an interactive Power BI dashboard to visualize key KPIs and trends, enabling stakeholders to make informed business decisions.

Certifications

- **Google Data Analytics Professional Certificate** | *Coursera*
- **Career Essentials in Data Analysis by Microsoft and LinkedIn** | *Microsoft*