

# Mehak Sharma

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## Education

### JSS Academy of Technical Education, Noida, Uttar Pradesh

Bachelor of Technology in Computer Science and Engineering

2021 – 2025

GPA: 7.10/10

### Cambridge School Noida, Uttar Pradesh

Higher Secondary School

2020 – 2021

Percentage: 86.2%

### Cambridge School Noida, Uttar Pradesh

Secondary School

2018 – 2019

Percentage: 92.2%

## Technical Skills

**Languages:** Python, JavaScript, C, C++, SQL, HTML, CSS

**Frameworks & Libraries:** Django, React.js, Next.js, Pandas, NumPy, Scikit-learn, Hugging Face Transformers

**AI & NLP:** Machine Learning (ML), Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Natural Language Processing (NLP)

**Cloud & DevOps:** AWS, Docker, Git, GitHub

**Databases & Tools:** MySQL, MongoDB, VS Code, Jupyter, Power BI, Tableau

## Experience

### CDAC (Centre of Development of Advanced Computing)

May, 2025 - November, 2025

Noida, India

*SNLP Trainee - Machine Learning and NLP*

- Developed a Django-based Multilingual Translation Management System with API-driven translation, sentence-level editing, and aligned source-target data storage.
- Implemented secure role-based authentication and workflow management for task creation, assignment, and progress tracking.
- Built a translation interface with document upload, automatic sentence segmentation, and human-in-the-loop editing workflows.
- Integrated admin dashboards and analytics to track job progress, productivity, and user activity using Django ORM and REST APIs.
- Improved linguistic accuracy with multilingual dictionary support, chatbot-based feedback, and robust security features (CSRF, sessions, 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 Website](#)

- 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.

### Full Stack E-Commerce Web App with React & MongoDB | MongoDB, React, Node.js, Express.js [View](#)

- Developed a full-stack e-commerce platform using React, Node.js, Express.js, and MongoDB, increasing user engagement by 40%.
- Integrated secure payments, optimized APIs, and scaled for 10K+ users with <200ms response time.
- Implemented user auth, product catalog, cart, and order flow for smooth operations.
- Conducted sales and user behavior analysis, boosting conversion rates by 25% through data-driven UX improvements.

## Achievements and Co-Curricular

- Served as **Vice President of YFAC NGO Society** and **volunteer at Drishti Foundation**, contributing to initiatives for women and children.
- Solved **150+ coding problems** across various platforms with a focus on DSA fundamentals.