Ribhav Jain

✉ ribhavjain2003@gmail.com   📞 +917505381378   📍 Ghaziabad, UttarPradesh

Education

Shiv Nadar University, *B.Tech in Computer Science; CGPA: 8.98*

August 2021 – May 2025
Greater Noida, India

Awards & Accomplishments:

- Consistently achieved **Dean's List recognition** for 5 semesters, placing within the **top 10%** of the entire CSE department across all academic years.
- Shortlisted for **Berkeley Global Access** program at **UC Berkeley, United States.**
- Advanced to stage 2 in the **National Talent Search Examination**, securing position within the **top 5** percent.

Skills

- Languages: Java, SQL, C   -Tools: GitHub, GitLab, Databricks, SonarCloud, AWS S3

Professional Experience

Software Engineer, *Chegg Inc.*   January 2025 – October 2025 | Delhi, India
- **Built an LLM-driven text-to-SQL automation engine** using HuggingFace and LlamaIndex, with intelligent schema validation, query optimization, and hallucination detection—**reducing ad-hoc SQL generation time by ~60%** and significantly improving query reliability for BI teams.
- **Engineered an event-driven S3 monitoring and orchestration system** in Python that automatically validated, routed, and triggered Databricks ETL jobs via REST APIs, **eliminating manual job triggers** and improving overall pipeline uptime.
- **Built a PySpark-based validation system** to automatically **synchronize data between S3 and Databricks**, ensuring **accurate, up-to-date forecasts** and **reducing QA effort by ~70%.**
- **Architected cross-platform PySpark pipelines** to unify Mathway–Busuu data across iOS, Android, and Web, automating Net Paid Customer (NPC) computation and quarterly metrics generation, which **increased reporting accuracy and reproducibility**.

Software Engineer Intern, *NerdNextDoor*   May 2024 – July 2024 | Remote
Actions:
- **Developed a media resizer web application using Vue.js** that allows **Image and PDF resizing directly within the client browser** without needing server-based processing.
- Utilized **HTML5 Canvas and JavaScript** for image resizing and **implemented Ghostscript in WebAssembly** for PDF resizing.

Achievements:
- **Achieved 100% client-side processing**, eliminating the need for server-based operations.
- **Ensured complete data privacy** by keeping users' data **fully within their browser** for a **secure resizing experience.**

Projects

Personalized Adaptive Math Tutor
Adaptive learning platform - PYTHON, HTML, CSS (with Bootstrap)   *Autumn 2024*
Actions:
- Implemented a dynamic **question selection system** that adapts in real-time to user performance, optimizing for both mastery and engagement.
- Integrated **Google DeepMind Mathematics Dataset** and preprocessed 240,000+ questions spanning **8 mathematical concepts** across varying difficulty levels.

Achievements:
- Delivered a **100% personalized learning experience**, dynamically tailoring content for users based on real-time mastery tracking.

SmartExpense+,   *Spring 2024*
Expense Management Application - HTML, CSS, JAVASCRIPT, NODE.JS
- Developed a comprehensive application for users to **categorize** and **monitor** their **expenses**.
- Implemented **budget allocation** and **real-time** tracking to help users avoid **overspending**.
- Integrated machine learning algorithms like **Random forest** to predict future expenses based on historical spending patterns and user behavior.

EXTRA-CURRICULARS

- **Grade-5 Electronic keyboard,** *Trinity College London, Music*
  Achieved recognition for the best performance of a musical piece in all of South-East Asia.

- **State Level Swimmer,** *represented Meerut division at state level*