Rounak Azad

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SKILLS

- **Languages**: C++, JavaScript, C, PHP
- **Frameworks**: HTML and CSS, Tailwind CSS, NodeJS, React
- **Tools/Platforms**: MySQL, GitHub, Git, MySQL, MongoDB
- **Soft Skills**: Strategic thinker, Innovative, Adaptability, Efficient, Team Player

PROJECTS

Travel Guider Chatbot | Github   Dec 2025

- Architected a conversational agent utilising **Generative AI / LLMs** to process natural language queries and generate detailed travel itineraries.
- Implemented real-time data fetching by orchestrating API calls to third-party services (Flight/Weather data), overcoming the hallucinations and limitations of static model knowledge.
- Refined model outputs using systematic prompt tuning and context management techniques to guard against irrelevant responses and ensure high-quality advice.
- Deployed a low-latency frontend with vanilla **JavaScript**, featuring asynchronous message handling and responsive CSS layouts for a polished cross-platform UI.
- Tech: HTML, CSS, JavaScript, AI

Student Dropout Analysis | Github   Mar 2025

- Engineered a dynamic Student Management System using **PHP and MySQL**, processing large datasets of academic history to facilitate data-driven decision-making.
- Deployed an algorithmic filtering system that automatically flags at-risk students based on attendance and grade thresholds, reducing the time required to identify struggling students by **40%**.
- Designed an interactive dashboard using **JavaScript and CSS**, transforming complex dropout trends into actionable visualisations that allow educators to deploy early intervention strategies.
- Implemented robust security protocols, including server-side PHP validation and client-side JavaScript checks, ensuring the integrity and privacy of sensitive student records.
- **Tech**: HTML, CSS, JavaScript, PHP, MySQL

TRAINING

Java Maestro: Hands-On Training on Developing GUI Applications | Lovely Professional University   Jun 2025

- Built a JDBC connectivity layer to interface with a relational database, facilitating secure SQL transactions for data management.
- Designed a cross-platform GUI application utilising **Java Swing/JavaFX** components to create robust, form-based user interfaces.
- Implemented the MVC (Model-View-Controller) design pattern (or generally OOP patterns) to decouple business logic from the UI, resolving code complexity and improving testability.
- Programmed complex event listeners to validate user input in real-time and manage application state dynamically.
- Tech stacks used: DSA, HTML, Java, PHP

CERTIFICATES

- Java Programming by LPU | NeoColab   May 2025
- Privacy and Security in Online Social Media | NPTEL   Apr 2025
- Data Structure and algorithm by LPU | NeoColab   Dec 2024
- Object Oriented Programming by LPU | NeoColab   Dec 2024
- RPA Basics and Introduction to UiPath | UiPath   Sep 2024
- From Relational Model (SQL) to MongoDB's Document Model | MongoDB   Jul 2024
- Computer Programming by LPU | NeoColab   May 2024

ACHIEVEMENTS

- Solved 350+ DSA problems across platforms like Leet Code and Geek for Geeks, strengthening problem-solving and algorithmic thinking skills   Jun 2025

EDUCATION

Lovely Professional University   Punjab, India
Bachelor of Technology – Computer Science and Engineering; CGPA: 6.0   *Aug 2023-Present*
Kisan Inter College   Gaya, Bihar
Intermediate   *Apr 2020 – Mar 2022*
Al-Momin International School   Gaya, Bihar
Matriculation   *Apr 2019 –Mar 2020*