Ayushi Roy

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github.com/AyushiR0y

EDUCATION

SRM Institute of Science and Technology   **GPA: 9.52**

B.Tech in Computer Science Engineering with specialization in Artificial Intelligence and Machine Learning   *2022-2026*

EXPERIENCE

Samsung PRISM   November 2024 – Present

Research Intern   *Remote*

- Conducted literature reviews, case studies, and comparative research on current chatbots utilizing BERT, GPT, and VectorDB, and conceptualized methods to improve tokenization for historical answer embedding.
- Developed a novel method for better token handling, enhancing precision and recall of contextual answers by 2.6%.
- Integrated an AI code chatbot with an IDE to be used by developers in the Samsung team.

HDFC Life Dubai   June 2024- December 2024

Project Manager Intern   *Remote*

- Preprocessed, stored, and analyzed six years of historical data to derive key metrics for pattern recognition.
- Designed and developed dashboards for the Reinsurance and Retail segments to display performance indicators.
- Created machine learning models to analyze customer demographics and predict high-profit segments.
- Led a team of developers in designing the Customer Service Requests Portal and Employment Savings Portal, enhancing query resolution performance by 26%.
- Spearheaded the creation of a Data Lake for HDFC Dubai by liaising with several vendors, improving the utilization of insights from user data by 7%.

Sentient Scripts   August 2024- November 2024

UI/UX Designer   *Chennai*

- Individually conceptualized and designed new features such as quizzes, "Courses for You," and "News" in the Pephire application using Figma, prioritizing user experience and increasing app retention rates by 37%.
- Collaborated closely with the founders of Sentient Scripts and developers to review and refine changes, incorporating feedback effectively.

Reliance General Insurance   May 2023- July 2023

Software Engineering Intern   *Mumbai*

- Trained in SQL and C# with a team of mentors and worked on improving existing database systems in use.
- Created CRUD applications and interfaced with APIs to automate processes and enhance customer service by 8%.
- Improved accuracy, optimized operational workflows, and facilitated chatbot integration into the official website.

PROJECTS

GreenGo: The Sustainable Transportation App | *Flutter, Firebase, Git*   PALS Innowah! Finalist

- Led a high-performing team of 3 in developing a feature-rich mobile app using Flutter, integrating features such as carpooling, cycle routes via Google Maps API, train schedules via the IRCTC API, step tracking, and EcoNews modules.
- Designed the complete UI on **Figma**, assisted in debugging, ideation, and led the business pitch to judges, receiving special mention for technology implementation and user-friendly design.

Fairshare Bill-splitting Application | *React, Tailwind, NodeJS, Git, PostgreSQL*   Personal Project

- Engineered a visually appealing user interface by translating self-designed Figma mockups into a functional website currently under College faculty to be deployed.
- Developed algorithms for splitting bills equally and unequally, tracking expenses, generating monthly receipts, and providing personalized financial aid.

TECHNICAL SKILLS

Languages: C, C++, Python, SQL, HTML, CSS, JavaScript, C#
Frameworks: Flutter, React, MongoDB, PostgreSQL, Tailwind, Node.js, FastAPI
Developer Tools: Git, Docker, AWS, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Design: Figma, Canva, Adobe Illustrator, Photoshop