Ayush Upadhyay

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Chicago, IL

EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY   **Chicago, Illinois**
Master's in Computer Science   *August 2023 - Present*

CHARUSAT UNIVERSITY   **Gujarat, India**
B.Tech. Computer Science & Engineering   *November 2020 – May 2023*

PARUL UNIVERSITY   **Gujarat, India**
Diploma in Computer Engineering   *May 2017 – October 2020*

PROFESSIONAL EXPERIENCE

DATA SCIENCE INTERN   **Gujarat, India**
Kintu Design Pvt. Ltd.   *December 2022- May 2023*

- Coordinated with clients in an Agile setup to understand their requirements, leading a team of four members.
- Organized daily scrum meetings to ensure effective communication and progress.
- Spearheaded the "Sign Language Detection" project, employing Python to develop a machine learning model with an accuracy exceeding 90%.
- Successfully deployed the project and published it on GitHub for global accessibility.
- Utilized GitBook to create user-friendly and understandable documentation, making the project accessible to individuals regardless of their technical expertise.

WEB DEVELOPER INTERN   **Gujarat, India**
ITmakerz Solution Pvt. Ltd.   *May 2022 – June 2022*

- Built a fully functional web-based video conferencing app with integrated screen share and chat features in a team of 3 interns.
- Implemented Firebase authentication to Sign Up/Log In using Google Account.
- Assisted in integrating chat functionalities from ChatEngine.IO by using its API.
- Used WebRTC and Socket.IO for real-time exchange of data, audio and video among participants in a conference call.

PROJECTS

Ticket Fusion:

In this project, users can view upcoming sports events, select their seats, book tickets, and also purchase sports event swags from the shop section.

- In this project, we utilized ReactJS and CSS for the frontend development, Elasticsearch for storing user and product information, and MongoDB for storing login details. Additionally, we integrated a chatbot using the OpenAI API to handle sports events queries given by the users. We used Google Maps, in the ticket section, users can see their live location and the sports event location and download their tickets.

GitHub Issue Tracker:

- In this project, I utilized a single GitHub repository to extract different issues, which were then used for data forecasting using an LSTM Machine Learning model. The backend was managed efficiently with Flask, ensuring data security and integrity. For the frontend, I utilized React to create a dynamic and user-friendly dashboard. Hosting all components—LSTM, Flask, and React on GCP (Google Cloud Platform) ensured optimal performance and scalability.

University Blogging Platform:

- I developed a comprehensive web application for the university, incorporating role-based access for students, teachers, admins, and moderators. Users can perform various actions like creating blogs, adding comments across campus areas, subscribing/unsubscribing from blogs, and commenting on posts. OpenAI integration enables automated comment suggestions based on blog content.
- For frontend development, I utilized ReactJS and React@MUI. The backend I used Elasticsearch and MongoDB to store all data. Additionally, I integrated a chatbot using OpenAI to assist platform users. Other APIs used include OpenWeatherMap for real-time weather information, the OpenAI API for suggesting events based on weather, and the SERP API for real-time Google searches.

SKILLS

Technical skills: HTML, CSS, ReactJS, Elasticsearch, MongoDB, Open-AI, Goggle Maps, GCP, Docker, AWS, WebRTC, SQL, Python, R, Machine Learning, Business Analytics, Project Management, Power BI, UML Diagrams CorelDraw, Visio, CorelDRAW.

Interpersonal skills: Communication, Leadership, Collaboration, Teamwork, Time-management, Presentation, Critical Thinking.