ALISHA MAHMOOD

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Skills

Languages: C, C++, Python, JavaScript | **Libraries:** React, Node.js, Express, Context API | **Database:** MongoDB, MySQL

Education

B.Tech in Computer Science and Engineering from Bengal Institute of Technology | Kolkata | CGPA 7.91   2022-26

Projects

DocuQuery | React.js, Node.js, TypeScript | https://docu-query-git-main-mahmoodalishas-projects.vercel.app/

- PDF **chat bot** application that allows users to upload PDF files, extract their content, and interact with the chat bot to ask questions and receive contextual answers.

News In Shorts | React.js, Node.js | https://news-in-shorts.vercel.app/

- Dynamic news application using React.js, featuring category-based news filtering (General, Business, Technology, Sports, Entertainment)
- Integrated the **NewsAPI** to fetch and display the latest headlines using **Axios**, efficiently handling API requests and data rendering based on user-selected categories. Clicking on headlines redirects users to the original news source to view the complete story.

Alumni Tracking System, | React.js, Node.js, MongoDB Atlas | https://alumni-tracking-system-mocha.vercel.app/

- Implemented secure admin authentication with **JWT**, allowing administrators to log in and manage alumni data.

- Created an admin dashboard with functionalities to add, edit, or delete alumni details, including their name, graduation year, placement information, photo (uploaded via **Multer**), and email ID.
- Integrated MongoDB Atlas for secure, cloud-based storage of alumni data.
- Built a user-facing homepage where updated alumni details are displayed for easy access by users.
- Enabled a search functionality within the homepage, allowing efficient search by alumni name.

Middle-East-Booking, | React.js, Node.js, MongoDB Atlas | https://middle-east-booking.vercel.app/

- Designed and implemented a complete room booking system for hotels in various cities of the Middle East.
- Utilized **MongoDB** for storing hotel, room, and booking data, ensuring efficient data retrieval and management.
- Implemented **search** functionality to allow users to find available rooms based on location and date.
- Developed booking calendar and availability checker to prevent double bookings.

Achievements

Runner up, Inter-College Tech Fest 2024

- **Project:** Live Class Streaming Application
- **Key Features: User Authentication:** Implemented secure login/signup functionality with user photo and name upload during registration. Users receive an ID and name upon successful registration.
- **Face Recognition**: Utilized Python and OpenCV for face recognition, redirecting users to a face recognition page based on their uploaded photo.
- **Teacher Interface:** Teachers can set **deadlines** for class participation, manage chat and **poll sessions**. Polls include **speech-to-text** functionality for question creation, with students able to select from multiple-choice options.
- **Student Interface:** Students can join classes, participate in polls, and engage in real-time chat with teachers and peers.
- **Tech Stack**: Developed using a combination of Python and OpenCV for face recognition, Flask for backend, and EJS, HTML, CSS, JavaScript, Socket.IO, PeerJS, Node.js, and Express for frontend and live class functionalities.

Participant, American Express Make-a-thon 2024 | https://fin-learn-virid.vercel.app/

- **Project:** Fin-Learn (Theme: Financial Literacy for All)
- **Objective:** Developed a website aimed at enhancing financial literacy and empowering individuals to make informed financial decisions.
- **Initiative:** Created tools to help users track their spending patterns and analyse their financial behaviour.
- **Technology:** Integrated **Plaid API** to securely access and aggregate bank transactions for authenticated users to keep a track of their monthly expenses.

Participant, Smart India Hackathon 2023

- **Project:** 3D Printed Prosthetic Arm
- **Materials**: Constructed using PVC filament
- **Technologies**: Utilized EMG sensors for detecting and translating muscle movements and Raspberry Pi Zero