MOHAMMED ARBAZUDDIN QURESHI

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Education

Muffakham Jah College of Engineering and Technology   **December 2020 – August 2024**
Bachelor of Engineering in Computer Science   *Hyderabad, IN*
GPA: 7.5

Projects

DreamEstate | *NodeJS, ExpressJS, ReactJS, Prisma, Socket.IO*
- Developed a modern full-stack real estate platform using the MERN stack, intensified with Prisma for efficient database management.
- Implemented robust RESTful APIs to manage property listings, user authentication, and favorites.
- Integrated real-time chat functionality powered by Socket.IO, enabling seamless communication between users, sellers, and agents.
- Created advanced search filters for location, price range, property type, and amenities, providing a personalized user experience.

MovieReviews | *Spring Boot, ReactJS*
- Constructed a movie review platform integrating a Spring Boot backend with a ReactJS frontend.
- Added secure user authentication using JWTs, enhancing data protection and reducing average login time.
- Enhanced user experience with a responsive and intuitive interface using ReactJS.

TicketShow | *VueJS, Flask, SQLite, Redis*
- Formulated TicketShow, a ticket booking platform using Vue.js for the frontend and Flask for the backend, with SQLite for database management.
- Integrated Redis for caching and background job processing, enhancing performance and efficiency by 20%.
- Generated admin functionalities to create, remove, and manage shows and venues using a Flask backend with secure routes.
- Optimized the platform to reduce load times by 10% and improve overall user experience.

CropSmart | *Flask, JavaSript, Pytorch, Scikit-Learn*
- Engineered CropSmart, an advanced agricultural tool leveraging machine learning for crop recommendations and plant disease detection, equipping farmers with data-driven insights.
- Achieved precise crop recommendations through the implementation of Random Forest algorithms.
- Enhanced plant disease detection accuracy using Deep Learning ResNet models.

ChemBot | *Llama-Index, Flask, Python, ReactJS, MongoDB*

- Developed an advanced chemical information retrieval platform integrating LLama-8B language model with Corrective-RAG technology.
- Implemented comprehensive chemical knowledge base, enhancing the system's ability to process complex queries and generate accurate, context-rich responses.
- Engineered a cutting-edge refining mechanism (Corrective-RAG) to refine retrieved Context, significantly improving accuracy by 10% over traditional RAG

Skills

Languages: JavaScript, Python, Java, C, PHP
Web Technologies: NodeJS, ExpressJS, ReactJS, VueJS, Flask, Spring Boot, TailwindCSS
Databases: MySQL, SQLite, PostgreSQL, MongoDB
Tools & Technologies: Git, GitHub, Docker, Scikit-learn, TensorFlow

Relevant Coursework

- Web Technologies
- Algorithms and Data Structures
- Distributed Systems
- Machine Learning
- Software Testing
- OOP Programming Using Java
- Software Engineering
- Linear Algebra
- Discrete Mathematics