Muhamad Muhsin

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Education

Government Engineering College Thrissur   Nov 2021 – Aug 2025
(Bachelor of Technology in Computer Science and Engineering)   *Thrissur*
- CGPA: 8.3/10

State Board School   Jun 2018 – Mar 2020
(Higher Secondary)   *Malappuram*
- Percentage: 96.3%

Projects

Hostel Admission Management | *React JS, MongoDB, Node JS, Express JS*   Jan 2024 – Apr 2024
- Engineered a robust hostel admission management system, featuring secure user authentication and role-based access control for wardens and administrators.
- Implemented a distance verification algorithm, accurately calculating proximity between college and applicant locations to ensure fair admissions.
- Designed and integrated a sophisticated student placement algorithm, optimizing allocations based on seat availability, distance, academic performance, and demographic categories.

ServeNow Assistant | *Dialogflow, Python+FastAPI, MySQL, Webhooks, NLP*   Jun 2024
- Developed an AI-driven food delivery chatbot using Dialogflow and FastAPI, enabling users to place and track orders through natural language interactions with seamless integration to MySQL.
- Implemented NLP techniques for intent recognition, entity extraction, and context management, optimizing chatbot accuracy with evaluation metrics like precision and F1-score.
- Integrated webhooks for real-time order management and designed a scalable RESTful API for CRUD operations, enhancing user experience and operational efficiency.

Rain-Tracker System | *React Native, PostgreSQL, Directus, AWS*   Aug 2024 – Jun 2025
- Developed a scalable mobile application for real-time weather monitoring, utilizing community-driven data collection to track rainfall and analyze trends accurately.
- Implemented a robust data ingestion and analysis pipeline on AWS with PostgreSQL, optimizing storage, processing, and geographic correlation of user-submitted weather data.
- Designed a modular system with location-based reporting and future scalability to monitor additional environmental gauges like temperature and soil strength for comprehensive weather insights.

Technical Skills

Languages:C Programming,Java,Python(basic),JavaScript
Technologies: MySQL,ReactJS,MongoDB,AWS Fundamentals,HTML,CSS
Concepts: Data Structures and Algorithms,Machine Learning,Computer Network,Object oriented Programming,Database Management System,Object Oriented Programming

Achievements

Nptel:Fundamental Algorithms:Design and Analysis with Elite silvel medal
Keam: Rank :916