Mohammad Ainia

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SUMMARY

Experienced in developing and deploying AI-powered solutions, including chatbots and conversational platforms. Proficient in full-stack web development with expertise in React.js, Node.js, Express.js, MongoDB, MySQL, and Python. Skilled in designing user-friendly interfaces, integrating APIs, and implementing machine learning models. Passionate about leveraging technical skills to build scalable, efficient, and innovative solutions.

Experience

WhatsApp AI, **Technologies: Node.js, Express.js, WhatsApp Business API, OpenAI API (ChatGPT), MongoDB**
Developed an AI-powered WhatsApp chatbot, reducing customer response time by 60% and automating 80% of support inquiries, enhancing operational efficiency.
Designed and implemented a natural language processing system using ChatGPT to provide intelligent and context-aware responses.
Ensured seamless communication and automation by integrating webhook-based real-time messaging.

Pet Care Platform (Graduation Project), Technologies: React.js, Node.js, MySQL, Figma
Designed and built a platform for pet owners to connect with veterinarians.
Developed user-friendly interfaces with React.js, incorporating features like appointment booking, pet supply e-commerce, and a pet care resource section.
Collaborated on API integration using Node.js and MySQL for efficient data management.

AI Chat Application, Technologies: React.js, Node.js, Express.js, MongoDB
Developed a conversational AI chat platform inspired by ChatGPT, utilizing the Gemini model for intelligent responses.
Designed an interactive and responsive user interface with React.js to ensure seamless user interactions.
Built and deployed a scalable backend using Node.js and Express.js, ensuring efficient API handling and secure communication.
Integrated MongoDB for dynamic data storage and managing chat histories and user interactions.

Social Media Platform, Technologies: React.js, Node.js, Express.js, MySQL, SCSS
Developed a social media platform with features such as post creation, user stories, and friend-following.
Designed a responsive UI using React.js and SCSS to enhance user experience.
Built a RESTful backend using Node.js and Express.js for API handling and integrated MySQL for secure data storage.
Focused on optimizing performance and delivering smooth user interactions.

Machine Learning
NYC Taxi Trip Duration Prediction, Technologies: Python, Scikit-Learn, Pandas, NumPy, Random Forset
Developed a predictive model to estimate NYC taxi trip durations using historical ride data.
Engineered key features, including temporal patterns (hour, day, rush hour indicator) and spatial features (Haversine distance).
Implemented a Random Forest Regressor, optimizing hyperparameters for accuracy.
Evaluated performance using RMSLE, demonstrating strong predictive capability with trip distance and pickup time as top features.

Boston Housing Price Prediction, Technologies: Python, Scikit-Learn, XGBoost, Random Forset, Linear Regression
Built a model to predict Boston housing prices based on property attributes.
Compared Linear Regression, Random Forest, and XGBoost models, optimizing hyperparameters with GridSearchCV.
Assessed performance using RMSE and R^2, with Random Forest outperforming other models.
Identified key factors affecting house prices, such as crime rate, number of rooms, and property location.

Education

Bachelor's Degree in Information Technology Engineering
University of Kalamoon (2020 – 2024)
Cumulative GPA: 3.08/4

Certifications

Developing Front-End Apps with React – IBM (Coursera)
Developing Back-End Apps with Node.js and Express – IBM (Coursera)
Get Started with Cloud Native, DevOps, Agile, and NoSQL – IBM (Coursera)
Getting Started with Git and GitHub – IBM (Coursera)
Node.js & MongoDB – IBM (Coursera)

Technical Skills

Front-End: React.js, Redux, JavaScript, HTML, CSS, SCSS, Figma
Back-End: Node.js, Express.js, Laravel, MySQL, MongoDB
Tools & DevOps: Git, GitHub, Docker, Postman, REST APIs
Machine Learning & AI: Python, Scikit-Learn, XGBoost, OpenAI API
Technical Support: Troubleshooting, debugging, performance optimization, user assistance