

Md Sultan Moheuddin



Banasree, Rampura • Dhaka-1219



sultan.shaon99@yahoo.com



+880 1627131074



<https://sultan-info.netlify.app/>

About me

A dedicated AI engineer with a passion for transforming complex problems into elegant solutions. I blend technical expertise with a background in education to create innovative, user-centered applications. Driven by curiosity and committed to continuous learning, I thrive in collaborative environments where I can leverage my analytical thinking and creative approach to advance technology that makes a meaningful impact.

Experience

SparkTech Agency

Dhaka, Bangladesh

Jr. AI developer

January 2025 - Continue

- Developed and integrated AI tools for tasks like video-to-text transcription, data extraction, and NLP solutions using various third-party APIs (e.g., PaddleOCR, DeepSeek).
- Trained and fine-tuned LLMs and Seq2Seq models (GRU/LSTM) using LoRA for applications like chatbots, summarization, and text classification.
- Applied regex, data preprocessing, and model evaluation techniques to optimize performance and accuracy in real-world AI workflows

East West University

Dhaka, Bangladesh

Teaching Assistant

October 2022– January 2025

- Conducted lab classes, guiding students through hands-on exercises in AI and ML, Database and algorithm applications.
- Provided support in debugging code, explaining complex concepts, and assisting students in achieving practical understanding of the material

Education

East West University

BSc in Computer Science and Engineering.

January 2020 - January 2024

Major in Artificial Intelligence and Minor in Software Engineering

Relevant Coursework: Database, Algorithm, Operating System.

Ishwardi Government College

Pabna, Rajshahi

Group : Science. GPA 4.92/5.00.

July 2016 - August 2018

Ikkshu Gobeshawana High School

Pabna, Rajshahi

Group : Science. GPA 5.00/5.00.

January 2005 - June 2016

Technical Competences

Programming & Development

Languages: Python, C++, C#, Java, JavaScript,
Version Control: Git, GitHub

Web Technologies: HTML5, CSS3, Django
Analysis Tools: Jupyter Notebook, MATLAB

Data Management & Analytics

Databases: MySQL, MongoDB

Big Data: Hadoop, Apache Spark Visualization: PowerBI, Python libraries

Cloud & Infrastructure

Platforms: AWS, Azure.

Operating Systems: Linux, Windows.

Projects

Musical Error Detection System

- An audio analysis tool comparing recorded performances against MusicXML notation to identify discrepancies.
- Implemented audio processing algorithms detecting pitch, rhythm, and articulation errors with high precision.
- Designed an intuitive feedback system providing real-time improvement suggestions.
- Integrated responsive user chat interface for additional support.

AI-Powered Property Finder

- Engineered a conversational AI agent revolutionizing property search experiences.
- Created an NLP system understanding complex user requirements (location, budget, amenities).
- Translated natural language queries into tailored property recommendations.
- Implemented context-aware conversation handling to refine suggestions based on user feedback.

Rare Medicinal Leaf Detection

- Led development of computer vision system for identifying rare medicinal plants.
- Personally collected and annotated comprehensive dataset of leaf specimens, published for research use.
- Designed and trained custom multi-class detection model achieving 94% accuracy in field conditions.
- Applied transfer learning techniques to optimize performance with limited training data.

Library Management System

- Architected full-stack solution streamlining library operations using modern technologies.
- Built responsive React frontend with intuitive UI/UX for librarians and patrons.
- Implemented robust Django backend with RESTful API architecture for inventory management.
- Designed optimized database schema for query performance and data integrity.

Certification and Training

- **AWS Cloud Technical Essentials** | Amazon | January 2023 - March 2024
Mastered core AWS infrastructure concepts with distinguished performance (97.14%)
- **Computers, Operating Systems & Security** | Microsoft | January 2023 - February 2024
Demonstrated comprehensive understanding of system architecture and security protocols (83.33%)
- **LeetCode SQL Badge** | July 2024
Recognized for advanced SQL problem-solving capabilities and database query optimization expertise
- **LeetCode Data Structure Badge** | April 2023
Validated proficiency in implementing efficient algorithms and optimized data structures
- **Azure Cloud Computing Specialization** | January 2023 - June 2023
Completed intensive training on sustainable cloud architecture and green computing practices

Research and Publications

- **REMP: A Unique Dataset of Rare and Endangered Medicinal Plants in Bangladesh for Sustainable Healing and Biodiversity Conservation.**
Data in Brief (DIB) Journal
- **Integration of Deep Learning-Based Image Analysis in Lung Cancer Pathology**
IEEE International Conference on Information Science and Engineering Technology (ICISSET), 2024
- **An E-Commerce Website Accessibility Issue Detection and Evaluation System**
IndiaHCI Conference, Springer, 2024
- **Strategies for Effective Malware Analysis and Detection Using Machine Learning Algorithms**
IEEE Conference on Computing, Machine Learning and Applications (COMPASS), 2024
- **Machine Learning Model to Define Water Potability Considering Distinctive Chemical Contaminants**
7th International Conference on Optimization (ICO), Springer, 2023