

D.M. RAFIUN BIN MASUD



Machine Learning Engineer with hands-on experience in designing, building, and deploying ML/AI solutions across computer vision, recommendation systems, and NLP. Skilled in MLOps practices, scalable deployment, and cross-functional collaboration. Proven track record in applied research (Best Paper Award, 2022) and industry-grade ML applications. Adept at mentoring peers, communicating with clients, and driving AI solutions from prototype to production.

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Dhaka, Bangladesh

EDUCATIONAL QUALIFICATION

B.Sc in Computer Science & Engineering (CSE)- 2024

East West University (EWU)

- CGPA 3.05/4.00

WORK EXPERIENCES

AI Engineer

Betopia | Dhaka, Bangladesh

Mar 2025 – current

- Leading a team of junior AI developers in designing and deploying ML-powered solutions.
- Mentoring team members on machine learning best practices, code reviews, and project delivery.
- Managed the end-to-end lifecycle of ML applications, from model training to containerized deployment with Docker.
- Coordinated with cross-functional stakeholders to align AI solutions with product goals.
- Oversaw industrial ML projects including:
 - Dating App Matching & Filtering Algorithms.
 - Quran Pronunciation Evaluation System (Audio Analysis).
 - Food Calorie Estimation via Image Processing.

CORE COMPETENCIES

SOFTWARE DEVELOPMENT • DATA ANALYSIS • MACHINE LEARNING • AUTOMATION TESTING • SYSTEM OPTIMIZATION • DATA PREPROCESSING • PREDICTIVE MODELING • MODEL TRAINING • MODEL EVALUATION • DEEP LEARNING • DATA VISUALIZATION • REGRESSION ANALYSIS • FEATURE EXTRACTION • QA AUTOMATION • PERFORMANCE MONITORING • ALGORITHM DEVELOPMENT • STATISTICAL ANALYSIS • TESTING FRAMEWORKS • DATA MINING • PROBLEM SOLVING • PROCESS AUTOMATION

TECHNICAL SKILLS

Programming Languages: C, C++, Python, JavaScript • **Database:** MySQL, Oracle SQL • **Software & Tools:** VS Code, Github, PyCharm, Netbeans • **AI & ML Libraries:** Scikit-learn, Pandas, NumPy, Matplotlib, OpenCV, TensorFlow, Keras • **Web & API Development:** FastAPI, HTML, CSS, JavaScript, React, PHP • **Backend & DevOps:** Docker, VPS Deployment, Postman, GitHub

LANGUAGES

Bengali (Native | **English** (Fluent))

PROJECT WORK

BALL SHUNDARI APPLE PLUM OBJECT DETECTION

TECHNOLOGIES: PYTHON, STREAMLIT, TENSORFLOW, KERAS, OPENCV, GITHUB

- COLLECTED AND PROCESSED A DATASET OF 701 IMAGES OF BALL SHUNDARI APPLE PLUMS.
- APPLIED ADVANCED IMAGE PROCESSING TECHNIQUES, INCLUDING RESIZING, NORMALIZATION, AND AUGMENTATION.

MEDICINE RECOMMENDATION SYSTEM AND MEDICAL CHATBOT

Technologies used: Python, Streamlit, LLM Model

- Integrated Bengali language support will make medicine information accessible to local users.
- Designed and trained a chatbot using large language models to offer accurate medical advice.

Movie Recommendation System Using Machine Learning

Technologies: Python, Machine Learning Models

- Preprocessed datasets to enhance accuracy in recommendations.
- Implemented machine learning algorithms for content-based and collaborative filtering.
- Evaluated model performance and fine-tuned parameters to improve user satisfaction.

RESEARCH WORK

DEEP LEARNING AND NON-CONTRAST CT FOR WIDESPREAD PANCREATIC CANCER DETECTION – 2022

- Achieved Best Paper Certificate Award by the International Conference on Innovations in Data Analytics, 2022
- Investigated applying deep learning models to non-contrast CT scans for early detection of pancreatic cancer.
- Designed and trained convolutional neural networks (CNNs) to accurately identify cancerous tissues.
- Preprocessed large datasets of CT images to enhance model performance and reliability.
- Evaluated model outcomes, achieving improved precision in identifying early-stage pancreatic cancer.

Academic Project on a Machine Learning Approach to Evaluate the Classification of Slow Growth Stages in the Ball Shundari Apple Plum Image Dataset – 2022

- Developed a machine learning model to classify the growth stages of the Ball Shundari Apple Plum based on image datasets.
- Applied feature extraction techniques to highlight key characteristics in images.
- Trained and tested various classification algorithms, optimizing for accuracy and efficiency.
- Conducted statistical analysis to validate model predictions against ground truth data.

A Deep Learning Approach to Classify Slow Growth Stages in the Ball Shundari Apple Plum – 2021

- Implemented a deep learning framework to analyze and classify slow growth stages in apple plum samples.
- Utilized neural networks to model intricate growth patterns and detect stage-specific features.

Course & certifications

Accenture North America – Data Analytics and Visualization Job Simulation – 2024 | Forage

EXTRACURRICULAR ACTIVITIES

Associate Video Editor | EWU Robotics Club

- Collaborated with team members to create visually appealing content that showcased robotics projects and achievements.

Event Coordinator | IEEE Computer Society Student Branch

- Organized and managed events, workshops, and competitions.
- Coordinated with sponsors, guest speakers, and participants.

REFERENCES

Dr. Md Sawkat Ali

Associate Professor

Department of Computer Science & Engineering

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