Mahmud Ahad Abedin Fardin

AI-ML Engineer

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PROFESSIONAL EXPERIENCES

AI-ML Engineer 09/2023 – present
Prospect Engine LLC Dhaka, Bangladesh
Role: Full-stack Development (AI-ML), Cyber-Security specialist & Recruiter.
AIOps, MLOps, Design, Implement & Deploy AI-ML applications for production level.
Skills used: Artificial Intelligence, Machine Learning, Natural Language Processing, Deep Learning, Docker, Cloud Deployment, Cyber-Security, Linux
Projects:

- **Symbiot**, **an Enterprise AI Assistant**: Designed to enhance your productivity significantly, potentially by 100 times, without any complications. Symbiot is engineered to run with minimal overhead on your local machine, ensuring it's virtually unnoticeable in the background without the need for a GPU.
  - My role: System Design, Lead AI & Full-stack Engineer, Production Deployment
- **Recrura**, **AI meets Recruitment**: AI recruitment tool that simplifies hiring by auto-classifying resumes into 20 roles with 95% accuracy and ranking candidates using document similarity. Capable of processing up to 3,000 resumes per hour, the system significantly reduces recruitment turnaround time.
  - My role: System Design, Full-stack Engineer, Production Deployment

Co-Founder, Artificial Intelligence Engineer 10/2022 – present
NeuralWebX Dhaka, Bangladesh
Role: Implement AI solutions, Research and Application development.
Skills used: Python, Machine Learning, Natural Language Processing, Deep Learning, Application Development

Machine Learning Engineer 03/2021 – 01/2022
Senso Coder Dhaka, Bangladesh
Role: Internship
Skills used: Python, Machine Learning, Data Science

EDUCATION

Bachelor of Science in Computer Science & Engineering 2018 – 2022
IUBAT-International University of Business Agriculture and Technology Dhaka, Bangladesh
Activities and societies: Research, Machine Learning, Robotics, Innovation Center
Research: Three major & Two minor Thesis (Undergrad level), Supervised Thesis students
Innovation Center: Research & Innovation Secretary

Higher Secondary in Science 2015 – 2017
National Model College Noakhali, Bangladesh
Major: Higher Mathematics
Courses: Physics, Mathematics, Chemistry, Biology, Information Technology

RESEARCH

AutoXGB: A Novel Autoencoder-XGBoost Hybrid Model for Emotion Analysis using EEG Signals
AutoXGB, a novel hybrid model that combines the power of Autoencoder and XGBoost techniques for accurate emotion analysis using EEG signals. Achieved an impressive accuracy of 96% in emotion classification, outperforming traditional approaches and setting a new benchmark in emotion analysis from EEG signals.

Exploring EEG signals for detecting Neurobiological Illness and Consumer Preferences
EEG classification, EEG signal analysis. Predictive modeling techniques to analyze consumer preferences by utilizing EEG signals obtained while users explored multiple items on the Internet. By leveraging a diverse dataset encompassing a range of consumer goods, this research contributes to both the understanding of neurobiological aspects and the exploration of consumer behavior through EEG signal analysis.

Classifying Suspicious Motions in restricted area based on Hybrid Neural Net and Video Classification
Created a new Hybrid Model with highest accuracy. Applied Single and Video Classification on Custom dataset.

Stock Price Forecast: A comparative analysis among Support Vector Machine, Linear Regression, Deep Neural Network
Real-Time largescale dataset, Time Series analysis, Real-Time forecasting. Performance of three popular Machine Learning algorithms for stock price forecasting: Support Vector Machines (SVM), Linear Regression, and Deep Neural Networks (DNN). Using Real-time dataset, trained each of these models to predict the stock prices for the next seven days.

Design and Development of an Intelligent Symptom-Based Patient Assistance MediBot Utilizing NLTK and PyTorch
Implemented with custom Medicine dataset, NLTK, PyTorch. A Chatbot, Designed and Implemented for Medicine help, so it named as MediBot. It will give the medicine and doctor consultancy suggestions based on patient's given symptoms.

CERTIFICATIONS

Machine Learning Specialization
Stanford, DeeplearningAI

AI in Healthcare Specialization
Stanford University, Coursera

Machine Learning & AI
Google Cloud

Google IT Automation with Python Professional
Coursera, Google

CS50AI-Artificial Intelligence with Python
EdX, Harvard

Robotics
Columbia University, Coursera

VOLUNTEERING

Research & Innovation Secretary 05/2022 – 01/2024
IIEC-IUBAT Innovation and Entrepreneurship Center Dhaka, Bangladesh
Role: Lead the Projects, Website Development & Maintenance, Generate new Ideas & Research.
Skills used: Machine Learning, Robotics, Data Science, Computer Vision, Deep Learning, Research, System Administration

PROFESSIONAL MEMBERSHIPS

Student Membership
IEEE

IEEE Communication Society Membership
IEEE Communications Society

REFERENCES

Rashedul Islam, *Assistant Professor & Coordinator,* International University of Business Agriculture & Technology (IUBAT)
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Dr. Md. Hasibur Rashid Chayon, *Associate Professor, Computer Science and Engineering,*
International University of Business Agriculture & Technology (IUBAT)
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