Mahmud Ahad Abedin Fardin

AI-ML Researcher

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PROFESSIONAL EXPERIENCES

Artificial Intelligence Engineer 10/2022 – present
NeuralWebX Dhaka, Bangladesh

Implement AI solutions, Research and Application development.
Skills: Python · Machine Learning · Natural Language Processing · Deep Learning · Application Development

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

EDUCATION

Bachelor of Science in Computer Science and Engineering 01/2018 – 04/2023
IUBAT- International University of Business Agriculture and Technology Dhaka, Bangladesh

Research: Three major & Two minor Thesis, Supervised Thesis students
Innovation Center: Research & Innovation Secretary

Higher Secondary in Science 04/2015 – 05/2017
National Model College Noakhali, Bangladesh

RESEARCH & PROJECTS

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.

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.

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.

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.

Real-time Bangla License Plate Recognition System: Robust and Efficient Security Enhancement through Deep Learning and EasyOCR Integration
Large Scale dataset, ResNet50, EasyOCR, Alarm System if anything wrong happens

Real-Time Driver Drowsiness Detection and Alert System: An Approach using Sequential Models for Enhanced Road Safety
CNN, OpenCV, Haar Cascade Classifier, Alarm system

SKILLS

- Machine Learning
- Natural Language Processing
- Brain-Computer Interface
- Data Science
- Computer Vision
- Cryptography

VOLUNTEERING

Research & Innovation Secretary 05/2022 – present
IIEC-IUBAT Innovation and Entrepreneurship Center Dhaka, Bangladesh

Skills: Machine Learning · Robotics · Data Science · Computer Vision · Python · Deep Learning · Research · System Administration

CERTIFICATIONS

Google IT Automation with Python Professional
Coursera, Google

AI in Healthcare Specialization
Stanford University

Scientific Computing with Python
FreeCodeCamp

CS50AI-Artificial Intelligence with Python
EdX, Harvard

Machine Learning & AI
Google Cloud

Data Analysis with Python
FreeCodeCamp

Machine Learning Specialization
Stanford, DeeplearningAI

Machine Learning with Python
FreeCodeCamp

PROFESSIONAL MEMBERSHIPS

Student Membership
IEEE

IEEE Communication Society Membership
IEEE Communications Society

LANGUAGES

- English
- Bangla
- Hindi

REFERENCES

Prof. Dr. Utpal Kanti Das, *Chair & Professor, Computer Science and Engineering*,
International University of Business Agriculture & Technology (IUBAT)
ukd@iubat.edu, +88-01819199419

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