Md.Mehedi Hasan

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Education

Bachelor of Computer Science and Engineering *Jan 2021 – Jan 2025*

IUBAT-International University of Business Agriculture and Technology *CGPA: 3.84/4.00*

Thesis: Integrating deep learning algorithms for forecasting evapotranspiration and assessing crop water stress in agricultural water management

Publications

Journals

- Integrating deep learning algorithms for forecasting evapotranspiration and assessing crop water stress in agricultural water management *(Journal of Environmental Management, Q1)*
- Estimation of concrete materials uniaxial compressive strength using soft computing techniques *(Heliyon, Q1)*
- Machine Learning for predicting strength properties of waste iron slag concrete *(Heliyon, Q1)*
- A Comparative Analysis of Machine Learning Approaches for Evaluating the Compressive Strength of Pozzolanic Concrete *(IUBAT Review)*

Conference

- Aspect Based Sentiment Analysis in Bengali Text using Machine Learning and Deep Learning Algorithms *(IEEE)*

Under peer review

- Novel hybrid GBR-DNN model for predicting the Gravity Grouted Soil Nail Pullout Bond Strength in Weathered Soil *(Journal of Rock Mechanics and Geotechnical Engineering, Q1)*
- Generative Aspect Based Sentiment Analysis using Transformer Based Model *(Coling)*

Skills

AI: Machine Learning |Deep Learning |Computer Vision |NLP |LLM |Generative AI

AI Frameworks: Pytorch|Tensorflow|ScikitLearn|Transformers|Hugging Face|LangChain|OpenCV|Numpy|Pandas

Backend: Django|FastAPI |Flask |Express |NodeJs

Frontend: NextJs |ReactJs |Redux |Zustand |Tailwind

Database: MongoDB |Prisma |MySQL

Work Experience

Intern AI Engineer *Feb 2024 – Aug 2024*

ImpleVista

Working Project:

IV Trip *(MERN Stack,Redux,Tailwind)*

- Easy Booking – Quick and hassle-free reservation for flights, hotels and tours
- Seamless Payment Integration – Secure and multiple payment options for smooth transactions.

IV Avatar *(MERN Stack,Microsoft Azure)*

- Text to Video – Powerful AI model to generate video from given scripts.
- AI Avatar – Multiple AI Avatar with many gesture support in live and pre-recorded session.

Extra Curriculum Activities

- Top Fresher Team in IUPC Programming Contest
- Mentor in Machine Learning and Deep Learning Bootcamp in IUBAT
- Specialized in Generative Adversarial Network

Projects

- Brain Stroke Detection Using BioClassNet and Yolo v10
- Breast Cancer Detection from Medical Image with Ensemble Learning
- Transformer Based Aspect Base Sentiment Analysis
- Autism Detection System
- Online Hotel Reservation Management System
- Employee Management System