

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*)
- [Advancing Evapotranspiration, Potential Evapotranspiration, and Crop Water Stress Index Forecasting: Integrating Deep Learning for Current and Future Agricultural Water Management](#) (*SSRN, 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 Computers and Geotechnics, Q1*)

Skills

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

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](#)