KHANDAKAR MEHEDI HASAN

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EDUCATION

IIT,UNIVERSITY OF DHAKA - Dhaka, Bangladesh | 09 January 2022 - present

Govt. Ananda Mohan College - Mymensingh, Bangladesh | 01 July 2018 - 01 March 2020
Higher Secondary Certificate(HSC) | GPA- 5.00/5.00

Mymensingh Zilla School - Mymensingh, Bangladesh | 01 January 2013 - 03 March 2018
Secondary School Certificate(SSC) | GPA- 5.00/5.00

SKILLS

- **Web Development:** MERN Stack (MongoDB, Express.js, React, Node.js), Tailwind CSS.
- **Language** : C, C++, Java, Python, Javascript.
- **Database**: MySql, Mongodb.
- **Other Tools**: NLP libraries of python ,LLM(LangChain),Minio,Docker,Cloudinary.

Competitive Programming

I am passionate about competitive programming and have solved 400+ problems on platforms including **Codeforces**, **Leetcode**, **GeeksforGeeks**, and **CSES**.

MY PROJECTS

- **E-Waste Management**   **Python, Kaggle, NLP (nltk), Gemini API.**
  A Python app using a pre-trained Keras model to classify waste from images (uploaded/webcam). It predicts waste type, provides guidance, and links to relevant SDG goals.
- **Wumpus-World-AI**   **MERN Stack (MongoDB, Express.js, React.js)**
  It is a 10x10 grid-based project where an agent uses AI techniques like logic, inference, probabilistic reasoning, and loop detection to navigate, collect gold, and achieve its goals.
- **IIT Lab and Routine Management**   **MERN Stack (MongoDB, Express.js, React.js)**
  Worked in a team of two to build a system for optimizing classroom, lab, and schedule management at IIT, reducing conflicts and improving resource use
- **TripMinds**   **MERN(MongoDB,Express.js,React),FastAPI,Cloudinary,AI Models.**
  AI travel platform that creates itineraries, provides weather updates, integrates maps, generates personalized blogs/vlogs, and enables natural language image search.
- **BuddhirBati**   **MERN Stack (MongoDB,Express.js,React),FastAPI,Cloudinary.**
  Built a Stack Overflow-like web app with user authentication, posts, and notifications, later refactored into microservices for better scalability.
- **Mini_Chess_AI**   **MERN Stack (MongoDB,Express.js,React)**
  Minichess is a 6x5 chess game. This project features an AI opponent using Minimax with alpha-beta pruning and a user-friendly interface.
- **GoFood**   **MERN Stack (MongoDB, Express.js, React.js)**
  This is a full stack MERN project whose goal is to make a food delivery app .
- **Movie-Review-Sentiment-Analysis**   **Kaggle ,Python,NLP(nltk), Streamlit**
  My second NLP project is a movie review sentiment analysis app using Streamlit, Python, a pre-trained SVC model, and TextBlob, with results visualized from the IMDB dataset.

ACHIEVEMENT

1. AI Based Devpost Hackathon 2024
Won Devpost AI web hackathon, champion out of 400 teams. .**Link** to this event.

2.BUET CSE Fest 2024 AI & API Hackathon Finalist
My team, **Intifada-24**, secured a position among the top 10 teams. We developed a project based on the given requirements, utilizing AI models and various free APIs.Out project link **[TripMinds](#)**

3.Geeky Solutions Learnathon 3.0
We are selected as a shortlisted team for **[Learnathon 3.0](#)** among the top 507 candidates out of 2,521.

Experience

- **Organizing Secretary**
  IIT Debating Club (2024 - Present)
  Promoting critical thinking, public speaking skills among students
- **Information and Communication Secretary**
  Dhaka University Student Association of Trishal - (2024 - Present)
  An organization that supports DU students and admission candidates from Trishal Upazila.

References

Dr. Ahmedul Kabir
Associate Professor, IIT, University of Dhaka
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Dr. Mohammed Shafiul Alam Khan
Professor, IIT, University of Dhaka
Email:shafiul@iit.du.ac.bd