Tahsinul Haque Dhrubo
Software Engineer

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🌐 https://th-dhrubo-portfolio.vercel.app   ⭕ Exile404

CARRER OBJECTIVE

- Looking ahead, I am eager to explore how Machine Learning, Deep Learning, and AI can be applied to solve complex, real-world problems, particularly those that have been traditionally overlooked due to technological limitations. My goal is to contribute to research that not only pushes the boundaries of what Machine Learning, Deep Learning, and AI can achieve but also ensures that these advancements are inclusive and beneficial to society at large.

EDUCATION

2020 - 2023
- **B.Sc., BRAC University**, Computer Science.
  Thesis title: *Bridging Worlds: Enhancing Low-level Sign Language Recognition and Seamless BdSL-to-Bengali Conversion with Sequential LSTM Innovation*

SKILLS

Programming Languages	**Python**, **JavaScript**, **TypeScript**, Java ,C++, NodeJS, Ruby on Rails
Machine Learning and AI	TensorFlow, Keras, PyTorch, Scikit-learn, Numpy, Pandas, Matplotlib, Mediapipe, OpenCV, YoloV5, Seaborn
Databases	MySQL, PostgreSQL, MongoDB, Prisma
Web Development	HTML, CSS, **ReactJS**, **Tailwind CSS**, **NextJS**, Flask, **FastAPI**, **Django**, PHP, SpringBoot
Operating System	**Windows**, **Kali Linux**
Academic	Academic Research, Teaching, LateX
Others	Git, Docker, Selenium(Automation), Kafka

EXPERIENCES

Mar 2020 - Nov 2022	**Director of Communications**, BRAC University Response Team
Oct 2020 - Mar 2022	**Senior Member (Control and Sofware)**, BRACU Mongol Tori

MY RESEARCHES

Bengali AI Chatbot | GitHub

- An offline system designed to understand and respond to human queries in Bengali. This project allowed me to explore the intricacies of Deep Learning and NLP further, solidifying my desire to advance in the field of Artificial Intelligence.

Sign Language Detection BDSLP | GitHub

- Developed a model translating Bengali Sign Language into readable Bengali text. This project involved creating our dataset and utilizing technologies like Mediapipe, LSTM, and OpenCV, which has been a testament to my passion for creating adaptable and impactful technological solutions.

Securing the Pharmaceutical Supply Chain Using Blockchain

- Hyperledger Fabric to secure supply chain information and AI to detect fraud, aiming to create a transparent and accountable system. This project highlighted the potential of combining blockchain and AI to solve real-world problems, achieving 276 reads and a 3.9 research interest score on ResearchGate.

TECHNICAL PROJECTS

Chakri Khujo - Job Posting Website | GitHub

- Made for job search and posting
- MERN Stack

SoloNest | GitHub

- Django and Tailwind CSS
- Implemented payment gateway

Predicted Routine | GitHub

- Developed with Selenium and FastAPI
- To ease students' pressure

Hello USIS | GitHub

- Developed a website with Django and Selenium
- Improved user experience and removed pressure

E-Ticketing | GitHub

- Made for Bus, Train, and Plane
- Made with HTML, CSS, Javascript & PHP

Controller with Socket Programming | GitHub

- Made with Python
- Control System for a rover

AWARDS & ACHIEVEMENTS

2024	**FInalist in Robi Datathon 3.0 powered by AWS**
2023	**100 Problems solved on LeetCode. [ID- Exile404]**
2022	**3rd Kibo Robot Programming Challenge (Kibo-RPC) [Won Crew Award]**
	Finalist in Bangladesh Blockchain Olympiad 2022
2021	**2nd Kibo Robot Programming Challenge (Kibo-RPC) [Runners-up][Won Crew Award]**
	BRAC University Intra University Programming Contest 2021(Champion)
	BRAC University Intra University Hackathon[Runnersup]
	Honorable Mention in ICPC2021

REFERENCES

Available on Request