HASANUL MUKIT

+880 1754-961609 · hasanulmukit.se@gmail.com · in/hasanulmukit · github/hasanulmukit

PROFESSIONAL EXPERIENCE

Independent Contractor 2022 – Present

AI Researcher & Developer

- Designed and deployed end-to-end ML pipelines (data ingestion → feature engineering → model serving) using TensorFlow and Docker, reducing time-to-production by 50%.
- Collaborated with product and marketing teams to A/B-test personalized recommendations, boosting engagement by 2× and lowering churn by 30%.
- Implemented automated CI/CD for model versioning with MLflow and GitHub Actions, ensuring traceability and rollback capability.
- Architected and deployed a multi-modal AI platform combining computer vision and NLP.

Freelancer 2022 – Present

Web Developer

- Developed and launched a responsive e-commerce site using React.js and Node.js, increasing client sales by 45% through improved UX.
- Implemented lazy loading and code-splitting, reducing page load times by 2 s and boosting Google PageSpeed scores by 20%.
- Managed end-to-end project lifecycles for 10+ clients, delivering on schedule and achieving a 95% client satisfaction rate.
- Optimized sites for SEO best practices, securing first-page Google rankings for targeted keywords within 3 months.
- Provided ongoing maintenance and feature updates, reducing bug reports by 60% and enhancing codebase stability.

Nabarupa Fashion House BD Ltd., Head Office, Dhaka 2023 – 2024

IT Officer

- Led migration from paper-based to electronic booking, implementing a custom web portal (PHP/MySQL) that slashed labor costs 30% and overhead 10%.
- Managed VLAN, firewall, and backup systems for 12 offices, maintaining 99.9% uptime and reducing incidents by 40%.
- Served as first-line support for 100+ staff.
- Provided exceptional technical support and troubleshooting, improving client satisfaction by 18% within six month.
- Oversaw product data entry and updates in a MySQL inventory database, achieving 99.8% data accuracy and streamlining reporting processes
- Automated daily system backups and disaster-recovery drills using PowerShell scripts, cutting potential downtime from 8 hrs to under 30 mins.

EDUCATION

Green University of Bangladesh**,** Dhaka 2019 - 2022

Bachelor of Science, Computer Science & Enginheering **CGPA: 3.8**

- Vice-Chancellor Awards: Fall 2019, Summer 2020, Summer 2022, Fall 2022
- Dean Awards: Summer 2019, Spring 2020, Fall 2021

Monipur High School & College**,** Dhaka 2017

Higher Secondary Certificate **GPA: 4.67**

PROJECTS

Drug-Target Binding Affinity Prediction | LINK

- Built a 1D-CNN in PyTorch to predict small-molecule–protein binding affinities, achieving 89.7% Accuracy on hold-out data.
- Designed an end-to-end pipeline (RDKit → PyTorch → MLflow) that reduced screening time by 30%.

AI-Driven Network Lifecycle Optimization | LINK

- Developed a reinforcement-learning agent (TensorFlow) to automate network configuration, cutting manual tuning time by 70%.
- Deployed microservices in Docker for real-time policy updates across 100+ nodes.

AI-Powered Mental Health & Wellness App | LINK

- Architected a chatbot Hugging Face Transformers to provide personalized CBT tips, improving user retention by 2×.
- Integrated TensorBoard monitoring and automated A/B testing for continual model refinement.

SKILLS

Programming Languages: Python, JavaScript, Java, C/C++ , SQL
ML & DL Frameworks:: TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV
Data & ETL: Pandas, NumPy, Pentaho Kettle, MLflow
Web & Mobile: ReactJS, Next.js, NestJS, React Native, Wordpress, Android Studio
DevOps & Tools:: Docker, Git, CI/CD (Jenkins/GitHub Actions), Hugging Face, AI Studio, Latex
Databases: MySQL, PostgreSQL, MongoDB, MS SQL
Design & Visualization: Figma, Adobe XD, Matplotlib

HONOURS

AI for Connectivity Hackathon Certificate	2025
Certificate of achievement at Generative AI Hackathon with IBM Granite	2025
Responsive Web Design Developer Certification	2024
2nd Runner up, British Council Book Reading Competition	2019

PUBLICATIONS

SMILES2DTA: a CNN-based approach for identifying drug candidates and predicting drug-target binding affinity, **First Author, Neural Computing and Applications by Springer London (2025)**