

MUHIT KHAN

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Education

Kalinga Institute of Industrial Technology

Bachelor of Technology in Computer Science and Engineering

Bhubaneswar, India

Sep, 2022 - May, 2025

- Full Funded SII Scholarship by the Indian Ministry of Education.
- Relevant Coursework: AI, Machine Learning, Web Technologies, Computer Networking, Data Structures & Algorithms

Dr. Mahbubur Rahman Mollah College

Science, GPA 5.00 out of 5.00

Dhaka, Bangladesh

Jul, 2018 - Sept, 2020

Relevant Experience

Nazbel Engineering & Technology Ltd.

Jr. Software Development Engineer

Dhaka, Bangladesh

Aug, 2024 - Present

- Completed a 3-month internship at NAZBEL as a Software Development Engineer Intern from August to October 2024, where my performance led to an offer for full-time employment.
- Spearheaded the development of three high-impact web applications: **NazbelFireproofing.com**, **BdFireproofing.com**, **BricknVilla.com**, and **iForbd.org** driving a seamless, responsive user experience across front-end and back-end architectures.
- Engineered scalable solutions with **Next.js**, ensuring rapid, efficient builds and optimized performance, deployed through **Vercel** and **Firebase** for robust real-time data handling.
- Strategically managed **Cloudflare** for domain security, enhancing resilience, optimizing load times, and safeguarding user data across global access points.

Paytm Insider (FIH Hockey World Cup 2023, Indian Super League 2023, AFC Cup 2023)

Accreditation & Ticketing Supervisor

Bhubaneswar, India

Dec, 2022 - Feb, 2024

- Managed accreditation databases, executed data entry and validation tasks.
- Coordinated with accreditation and ticketing teams, enhancing event organization through collaborative communication.

Technical Skills

- Programming Language:** C, C++, Java, Python, JavaScript
- Frontend:** React.js, Next.js, Tailwind CSS, HTML, CSS, Javascript, Typescript
- Backend:** Flask, FastAPI, Next.js
- AI/ML:** Pandas, Numpy, PyTorch, TensorFlow, Keras, Transformer, Langchain
- SQA:** Webdriver IO, Allure, Mocha, Cucumber, Browserstack, Gherkin, BDD, POM
- CI/CD & Cloud:** Docker, Jenkins, AWS
- Database:** MongoDB, Supabase, Firebase, MySQL, Oracle, Appwrite, ChromaDB, FAISS
- Design Tools:** Figma, Photoshop, Canva

Projects

1. Multilingual RAG System (Bengali-English)

- Developed a RAG-based multilingual Q&A system capable of answering Bengali and English queries from HSC Bangla 1st Paper textbook with source citation and Bengali text comprehension
- Technologies used: LangChain, ChromaDB, FastAPI, OpenAI API, Redis, Python, PDFMiner, OCR, Docker

2. XAI (Responsible AI) Lungs Scanner

- Developed a Responsible AI system for detecting 14 different lungs diseases from X-ray images with Gradcam visualization
- Technology used: TensorFlow, Keras, Flask, OpenCV, Grad-CAM, Docker, Python

3. Responsible AI Powered Face Authentication for Digital Payment Apps

- Developed a Responsible-AI Powered Face Authentication System for web-based payment applications.
- Technology used: Facenet512, Deepface, Tensorflow, OpenCV, Cryptography, Fernet, Flask

4. AI Based Face Authentication

- Developed a Face Authentication System for web applications.
- Technology used: Deepface, Tensorflow, OpenCV, Flask, Docker

5. E-commerce Web App

- Lead the team in developing two Ecommerce Web Apps (**Nixzobd.com**, **Saafak.com**) and delivered to the clients
- Technology used: Next JS, Tailwind CSS, Supabase, Vercel

6. Branding Websites

- Developed Branding Websites for SK Leather Kolkata (**skleatherexports.com**) and delivered to the client
- Technology used: Next JS, Tailwind CSS, Supabase, Vercel

Professional Certification

1. IBM AI Engineering Professional (V3)

- Issued by **IBM Skills Network**
- Covered **ML, Deep Learning (Keras, TensorFlow, PyTorch), and Generative AI**
- Hands-on training in **LLMs (GPT, LLaMA, BERT), NLP, LangChain, and RAG**
- Final Project: **Developed a Generative AI application using LangChain & RAG**
- Certificate Verification: <https://coursera.org/share/fd6d31cbdb03e32bc6fc748b753fc95e>

Research Interests & Experiences

- **Area of Interest:** AI/ML, Computer Vision in Security
- **Conferences Attended:**
 - 2nd International Conference on Machine Learning and Autonomous Systems 2025, Stamford International University, Thailand
 - 6th IEEE India Council International Subsection Conference (INDISCON) 2025, NIT ROURKELA, India

Leadership & ECA

Rotaract Club of Dhaka South

Vice President

Dhaka, Bangladesh

2022 - 2023

- Elevated the club's international profile, coordinating with international Rotaract clubs and enhancing fellowship activities.

DMRC Debating Club

General Secretary (Admin)

Dhaka, Bangladesh

Jul, 2019 - Sep, 2020

- Spearheaded administrative tasks and successfully organized inter-college debate tournaments.
- Achieved a **National Championship** of Asian Parliamentary Debate