KAZI ANIK ISLAM

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EDUCATION

Friedrich-Alexander-Universität Erlangen-Nürnberg　　**April 2024 – Ongoing**
M.Sc. in Artificial Intelligence　　*Erlangen, Germany*

North South University　　**September 2016 – May 2021**
*B.Sc.in Computer Science and Engineering - **Grade** - **1.3***　　*Dhaka, Bangladesh*

TECHNICAL / PROGRAMMING SKILLS

- Unity Engine
- AR/VR
- TensorFlow
- Flutter Framework
- Gitlab
- Docker
- Microsoft Access, Excel
- Power BI
- C#, C/C++
- Dart
- Python

PROJECTS

72-Hour Renewable Energy Percentage Predictions ⌨ | (Python, TensorFlow, CodeCarbon) **Sep 2025**

- Developed 41 forecasting models (deep learning and hybrids) to predict 72-hour renewable electricity share for European countries.
- Integrated CodeCarbon to measure and track carbon emissions during model training and inference.
- Created reproducible prediction scripts generating JSON outputs and visualization plots.
- Built benchmarking utilities to aggregate performance metrics and emissions into comprehensive reports.

Hemapta - Blood Transfusion Safety App | (Flutter, Google ML Kit, SQLite) **Sep 2025**

- Collaborated with Uniklinikum Erlangen to develop a mobile app preventing fatal blood transfusion errors.
- Implemented barcode scanning, OCR, and patient-data matching using Google ML Kit for real-time verification.
- Built GDPR-compliant local processing system with SQLite database and PDF/CSV/HL7 report generation.
- Designed cross-platform solution using Flutter with Provider state management and camera integration.

Liberation War Hero Museum (VR, Android) ⌨ | (Unity Engine, C#, Google VR SDK) **June 2020**

- Developed an Android VR app showcasing the 1971 Bangladesh Liberation War heroes.
- Created interactive photo exhibitions with written and video biographies.
- Designed an immersive virtual museum for educational exploration.
- Delivered an engaging experience that highlights historical war heroes.

Climate Confluence (Data Analysis Project) ⌨ | (Python, Jayvee, Power BI) **June 2024**

- Built an ETL pipeline to process CO2 emissions and temperature datasets.
- Analyzed trends showing a moderate correlation between CO2 emissions and rising temperatures.
- Visualized data using Python libraries (matplotlib, seaborn) to reveal insights into climate patterns.
- Demonstrated varying CO2-temperature correlations across countries using FacetGrid plots.

Other Projects (Github) ⌨

TRAINING / RESEARCH

Xfinity Technologies LTD (Training) ⌨　　**May 2020 – November 2020**
Game Developer　　*Dhaka, Bangladesh*

- Developed 2D and 3D games, enhancing gameplay and user experience.
- Created AR and VR applications, focusing on immersive environments.
- Designed and implemented 3D models using Blender for game and app projects. Worked with VR/AR hardware like Oculus.

* Contributed to interactive projects that combined innovative technology with creative design.

Deepfake Detection using CNN (Research) February 2021 — April 2021
Researcher *Dhaka, Bangladesh*
* This research addresses the threat of deepfake algorithms to video evidence. It introduces a resource-efficient approach using Haar Cascade for face detection and a custom CNN model, streamlining deepfake detection without extensive resource demands.

Hearth arrhythmia detection using CNN (Research) October 2020 — Ongoing
Undergraduate Researcher *Dhaka, Bangladesh*
* This research uses a deep neural network to detect heart arrhythmia from ECG papers. It proposes an efficient solution, employing an object detection algorithm and a 2D CNN model to automate the detection of individual heartbeats and classify arrhythmia.

EXTRACURRICULAR

Entrepreneurial Innovation Hub - Start-up Track Programm ↗ Sep 2025 – Dec 2025
Participant *Erlangen, Germany*
* Participated in workshops on team building, business model development, and pitching. Mentored by specialists to realize business ideas and gain insights into the start-up ecosystem.

Cybernouts 2016 ↗
Volunteer *Dhaka. Bangladesh*
* Volunteered for Cybernouts, a national event organized by North South University's Computer and Engineering Club, encompassing programming, gaming, and robotics line follower contests

LANGUAGES

* English: B2
* Deutsch: A1

CERTIFICATIONS

* Unreal Engine 5 C++ Developer Learn C++ & Make Video Games (Udemy)
* Flutter & Dart - The Complete Guide (Udemy)
* The Complete Flutter Development Bootcamp with Dart (Udemy)