

# KAZI ANIK ISLAM

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🌐 Portfolio

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## EDUCATION

**Friedrich-Alexander-Universität Erlangen-Nürnberg**  
*M.Sc. in Artificial Intelligence*

April 2024 – September 2026  
Erlangen, Germany

**North South University**  
*B.Sc.in Computer Science and Engineering - Grade - 1.3*

September 2016 – May 2021  
Dhaka, Bangladesh

## TECHNICAL / PROGRAMMING SKILLS

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

## 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)** ↗  
*Game Developer*

May 2020 – November 2020  
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)

*Researcher*

February 2021 — April 2021

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)

*Undergraduate Researcher*

October 2020 — Ongoing

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

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### Entrepreneurial Innovation Hub - Start-up Track Programm ↗

*Participant*

Sep 2025 – Dec 2025

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

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- English: C1
- Deutsch: A1

## CERTIFICATIONS

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- 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)