





# Khadiza Sultana Sayma

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## EDUCATION

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**Chittagong University of Engineering & Technology** Feb 2020 - July 2025

B.Sc. in Computer Science & Engineering

**Undergraduate Thesis: Multimodal Transformer-based Misogyny Meme Identification**

**CGPA: 3.92 / 4.00 (Position: 4th)**

**Chattagram College**

June 2017 - Apr 2019

Higher Secondary Certificate

GPA: 5.00 / 5.00

**Chittagong Cantonment Public College**

Jan 2015 - Feb 2017

Secondary School Certificate

GPA: 5.00 / 5.00

## SKILLS

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**Programming Languages:** C, C++, Javascript, Python

**Web Development:** HTML, CSS, Tailwind, React, Node, ExpressJs, MongoDB

**Tools & Technologies:** Git/GitHub, VS Code, Docker

**Machine Learning:** Numpy, Pandas, Scikit-learn, Natural Language Processing (NLP), Transformers.

## PROJECTS

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**Titanic Survival Prediction - MLOps Pipeline** | *FastAPI, scikit-learn, Docker, GitHub Actions* June. 2025

- Built an end-to-end MLOps pipeline to predict Titanic passenger survival, featuring model training, automated testing, and CI/CD workflows.
- **GitHub Link:** [https://github.com/Khadiza13/mlops\\_fastapi](https://github.com/Khadiza13/mlops_fastapi)

**EquiSports - Sports Equipment Online Store** | *MongoDB, Express.js, React, and Node.js* Dec.2024

- Developed a responsive e-commerce platform with secure authentication and product management.
- **Github Link:** <https://github.com/Khadiza13/EquiSport>

**Alexa: A Voice Assistant** | *Python and Flask* Dec. 2023

- This project is about building a voice assistant named Alexa which can tell me time, weather, required song, set alarm and also me required information from google.
- **Github Link:** <https://github.com/Khadiza13/Building-Alexa>

**AURA:An App for Women Security and Community** | *Java and Firebase* Dec. 2023

- Developed an app featuring emergency SOS, location tracking and sharing, self-defense resources, doctor counseling, and more, enhancing safety and support for users.
- **Github Link:** <https://github.com/Khadiza13/AURA>

**Innovation Hub: An website on Sheikh Kamal IT Business Incubator** | *HTML, CSS, JS, PHP* Sep. 2023

- We have developed a user-friendly website on our IT Business Incubator which will help entrepreneurs to get space and fund from incubator
- **Github Link:** <https://github.com/Khadiza13/IT-Business-Incubator-Website>

## EXPERIENCE

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- University of Asia Pacific** | *Lecturer, Dept. of CSE* March 2026 - Present
- International Islamic University Chittagong** | *Lecturer, Dept. of CSE* Sep 2025 - Feb 2026
- Database Management System.
  - Database Management System Lab.
  - Mathematical Analysis for Computer Science.
- Poridhi.io** | *Intern (Machine Learning)* Jan 2025 - Apr 2025
- Developed MLOps pipelines for model deployment and monitoring using MLflow.
  - Implemented model tracking, versioning, and automation workflows.
- GIGA Tech Limited, Dhaka, Bangladesh** | *Industrial Attachment Trainee* Dec 2024 - Jan 2025
- Conducted ablation analysis and identified bugs in the Bangladesh National Corpus-based Paraphrase and Question Answering model to enhance reliability.
  - Developed and fine-tuned two NLP models using BanglaBERT:
    - **Headline Classification:** Prepared and preprocessed a labeled dataset of Bangla news headlines and fine-tuned BERT-based models for classification.
    - **POS Tagging:** Preprocessed raw datasets, visualized POS tag distribution, and fine-tuned models using the Hugging Face Transformers library.

## PUBLICATIONS

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- **BANMIME:** Misogyny Detection with Metaphor Explanation on Bangla Memes  
*Md Ayon Mia, Akm Moshiur Rahman Mazumder, Khadiza Sultana Sayma, Md Fahim, Md Tahmid Hasan Fuad, Muhammad Ibrahim Khan, AKM Mahbubur Rahman*  
**Publication Link:** [aclanthology.org/2025.emnlp-main.900](https://aclanthology.org/2025.emnlp-main.900)
- **CUET\_Novice@DravidianLangTech 2025:** A Multimodal Transformer-Based Approach for Detecting Misogynistic Memes in Malayalam Language  
*Khadiza Sultana Sayma, Farjana Alam Tofa, Md Osama, Ashim Dey*  
**Publication Link:** [aclanthology.org/2025.dravidianlangtech-1.83](https://aclanthology.org/2025.dravidianlangtech-1.83)
- **CUET\_Novice@DravidianLangTech 2025:** Abusive Comment Detection in Malayalam Text Targeting Women on Social Media Using Transformer-Based Models  
*Farjana Alam Tofa, Khadiza Sultana Sayma, Md Osama, Ashim Dey*  
**Publication Link:** [aclanthology.org/2025.dravidianlangtech-1.85](https://aclanthology.org/2025.dravidianlangtech-1.85)

## CERTIFICATIONS

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- Machine Learning Specialization** Dec. 2023  
An online course offered through Coursera
- Fundamentals of MLOps** Feb. 2025  
An online course offered through KodeKloud

## REFERENCES

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**Prof. Dr. Muhammad Ibrahim Khan**  
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**Ashim Dey**  
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