Kawshik Ahmed Ornob

⌖ Dhaka, Bangladesh | ✉ kawshik15-14750@diu.edu.bd | ☎ +8801975288108 | 🔗 kawshik-ornob8.github.io

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About Myself

I am Kawshik Ahmed Ornob, a Computer Science and Engineering graduate from Daffodil International University. I have hands-on experience with data-driven projects, database management, web applications, IoT systems, and research on low-resource language summarization.

I enjoy working with SQL, Python, Java, and PHP, and have applied modern frameworks and database best practices to build efficient, secure, and scalable systems. With international publications and practical project work, I combine research with development skills. I am eager to contribute to database and backend projects, optimize queries, ensure data integrity, and grow as a professional in database administration and management.

Education

Daffodil International University   *June 2021 – May 2025*
B.Sc. in Computer Science and Engineering
  ○ GPA: 3.24/4.0

Projects

Euzaar - E-commerce Platform
  ○ Euzaar is a full-featured e-commerce platform designed to provide customers with a seamless online shopping experience. The platform includes functionalities such as product listings, search and filtering, wishlist, cart, order management, user authentication with email verification, and Firebase push notifications for real-time updates.
  ○ Tools Used: PHP (Custom MVC Framework), MySQL, HTML, CSS, JavaScript, Firebase, PHPMailer, Git/GitHub for version control.

HelloDr - Virtual Healthcare Platform
  ○ HelloDr is a comprehensive virtual healthcare platform designed to connect patients with certified doctors for convenient and reliable medical consultations. The platform offers a range of functionalities including video consultations, online appointment bookings, and secure messaging, making healthcare accessible anytime, anywhere.
  ○ Tools Used: PHP, MySQL, HTML, CSS, JavaScript, XAMPP, PHPMailer, Integrated video call system for real-time consultations.

Bangla Text Summarization Web Application
  ○ Developed a Flask-based web application for abstractive summarization of Bangla texts using a fine-tuned T5 Transformer model, addressing the challenges of low-resource language processing.
  ○ The application allows users to input lengthy Bangla content and receive concise, context-aware summaries powered by a pretrained T5 model from HuggingFace.
  ○ Tools Used: Python, Flask, HuggingFace Transformers, T5, HTML, CSS, JavaScript, Jinja2, Model trained on Bangla text corpus.

ScrapingApp - News, Image, and YouTube Comment Scraper
  ○ Developed a Flask-based web application that allows users to scrape data from various online sources including news websites, image search engines, and YouTube video comments.
  ○ Implemented user-friendly interfaces for entering URLs or keywords and retrieving structured data in real-time using BeautifulSoup, requests, and YouTube API.
  ○ Tools Used: Python, Flask, BeautifulSoup, requests, YouTube Data API, HTML, CSS, JavaScript.

E-Commerce Website
  ○ Developed an e-commerce website which is dynamic & user friendly.

- Tools Used: Django, SQLite, HTML, CSS, JavaScript, Bootstrap.

IoT Environmental Monitoring System

- Designed an IoT-based environmental monitoring system using ESP32, achieving real-time data visualization with ThingSpeak.
- Monitored soil moisture, water levels, CO, motion, light, temperature, and humidity with automated buzzer alerts for critical thresholds.
- Tools Used: ESP32, ThingSpeak, DHT22, MQ-7, LDR, and various IoT sensors.

IOT Smart Home

- Developed an Smart Home Which is ensure safety and security for daily life.
- It has features like Password door lock, automatic door open-close also for garage, light fan on off using WiFi, gas leakage detection, fire leakage detection and auto water supply on-off.
- Tools Used: Arduino R3, Servo motor, buzzer, led, pump, Esp 8266, 4*4 Keypad, 16*2 Display.

Note: Additional projects and contributions are available on my GitHub profile at kawshik-ornob8 ↗

Publications

[1] **Low-Resource Language Summarization: A Study of Bangla Using T5 architecture.**
Pronoy Kumar Mondal, Md. Masud Rana, Bibakananda Roy Shuvo, Kawshik Ahmed Ornob, Abdus Sattar, Md. Sadekur Rahman.
4th International Conference on Electrical, Computer and Communication Engineering, At: Chattogram, Bangladesh.

[2] **DVMNet: Detection of sugarcane leaf disease using ensemble of convolutional neural network classifiers.**
G. Rabbany, Md. Siam, K.A. Ornob, F. Haque, Md. H. Rahman, M.H. Siam.
Proceedings of the First International Conference On Data Science & Exploration in Artificial Intelligence (CODE-AI 2024) Bangalore, India, 3rd- 4th July, 2024 (Volume 1)

[3] **Advancing Clinical Diagnostics: Comparative Analysis of YOLOv10 and YOLOv11 for Brain Tumor Detection in MRI.**
Kawshik Ahmed Ornob, Pronoy Kumar Mondal, Md. Sadekur Rahman.
16th International IEEE Conference on Computing Communication and Networking Technologies. (Accepted For Publication)

[4] **Bangla SMS Spam Classification Using LLMs: Evaluating the Performance of BanglaBERT and XLM-RoBERTa.**
Pronoy Kumar Mondal, Anik Pramanik, Kawshik Ahmed Ornob, Md. Sadekur Rahman.
16th International IEEE Conference on Computing Communication and Networking Technologies. (Accepted For Publication)

[5] **Breaking Language Barriers with Large Language Models: A Bengali Case Study in Abstractive Summarization.**
Kawshik Ahmed Ornob, Bibakananda Roy Shuvo, Pronoy Kumar Mondal, Md Anisur Rahman, Md. Sadekur Rahman, Abdus Sattar.
16th International IEEE Conference on Computing Communication and Networking Technologies. (Accepted For Publication)

Note: A comprehensive list of my academic publications and citation metrics is available on my
Google Scholar profile ↗

Skills

- **Programming Languages:** Python, Java, C/C++, PHP.
- **Web Technologies:** HTML, CSS, JavaScript, Django, Flask, Laravel, Tailwind CSS.
- **Database Management:** MySQL, SQLite, Firebase.
- **Data & BI Tools:** SQL, Excel, Metabase.
- **Tools and Frameworks:** XAMPP, Git, GitHub, PHPMailer, ESP32, Arduino.
- **Soft Skills:** Teamwork, Problem-Solving, Communication, Quick Learning.

Languages

- **Bangla:** Native Proficiency.
- **English:** Professional Proficiency.

Certifications

DIU Take Off Programming Contest
DIU Unlock The Algorithm Programming Contest
DIU Intra University Programming Contest
Achieved Highest Mark – Big Data & IoT Lab
Contest Organizer – Crack Dataset (CD-2024)
Python with Machine Learning (80 hrs) – Jagannath University
May 2024 – Feb 2025, EDGE Project, Bangladesh Computer Council, ICT Division
Cyber Hygiene Training – The Asia Foundation & SAJIDA Foundation
20 May, 2025

Volunteering Experiences

Organizer — Crack Dataset (CD-2024)
Organizer — National Data Analytics Competition (NDAC-2025)

Recommendations

Dr. Abdus Sattar
Associate Professor & Director, M.Sc in CSE
Department of Computer Science and Engineering
Daffodil International University
abdus.cse@diu.edu.bd
+8801818392800

Md Sadekur Rahman
Assistant Professor
Department of Computer Science and Engineering
Daffodil International University
sadekur.cse@daffodilvarsity.edu.bd
+8801676379698