

Lamisa Bintee Mizan Deya

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🌐 LinkedIn 🔗 Website 🏠 Google Scholar

EDUCATION

Bachelor of Science in Computer Science and Engineering

Khulna University of Engineering & Technology

CGPA: 3.94 (After 6th semester out of 8)

Merit Position: 1st

(Out of 121 students)

01/2020 – present

Khulna, Bangladesh

RESEARCH INTERESTS

- Multimodal Machine Learning
- Deep Learning
- Natural Language Processing
- Computer Vision

RESEARCH EXPERIENCE

Undergraduate Thesis

Khulna University of Engineering & Technology

Thesis title: *Multilingual Video Summarization Through Audio Analysis in Bangla and English*

Supervisor: Abdul Aziz, Assistant Professor, CSE, KUET

Research Assistantship

Khulna University of Engineering & Technology

Thesis title: *CitySolution: A complaining task distributive mobile application for smart city corporations using deep learning.*

Supervisor: Abdul Aziz, Assistant Professor, CSE, KUET

PUBLICATIONS

F. Shama, A. Aziz, and L. B. M. Deya, “Citysolution: A complaining task distributive mobile application for smart city corporation using deep learning,” *SoftwareX*, vol. 27, p. 101829, 2024. 🔗

Elsevier

Trained a custom dataset using the Teachable Machine and deployed the model on a mobile application.

SoftwareX 🔗 *ArXiv* 🔗

ONGOING RESEARCH WORKS

Deep Learning-Based Complaining Task Distribution towards Smart City (Under Review) 🔗

Worked with a deep learning model consisting of images of 4 categories and analyzed the result with different performance metrics.

ArXiv 🔗

PROJECTS

Image Collage Maker 🔗

Developed a Python-based tool for generating image collages, allowing features such as image upload, selection, drag-and-drop, cropping, captioning, text addition, painting, erasing, resizing, rotating, applying filters (brightness, sharpening, contrast), and background removal.

GitHub 🔗 *YouTube* 🔗

Battleship AI Game 🔗

Created a Python-based AI for the Battleship game, enabling strategic ship placement and adaptive targeting against human players.

CitySolution - An Android Application 🔗

Prepared a custom dataset with 4 categories, trained a model using Teachable Machine, and deployed the model in a mobile application for real-time image classification.

GitHub 🔗 *YouTube* 🔗

Cardiac Recorder - A Software



Developed a mobile app for tracking blood pressure with secure user authentication, OTP verification, and data visualization. Features include recording vital signs, editing/deleting entries, and viewing health history. Conducted unit tests, UI tests, and added Javadoc documentation.

DinLipi- An iOS Application

Developed an app integrating calendar management, real-time weather updates, to-do lists, note-taking, and memory storage with Firebase backend and Swift UI.

A Vending Machine - Hardware Project

Designed a vending machine using Arduino and SIM900A GSM module for SMS-based ordering, payment verification, and automated product dispensing.

GitHub  YouTube 

Jewellery Shop- A Website

Developed a dynamic e-commerce Jewellery Shop website using HTML, CSS, JavaScript, and ASP.NET with admin management for products, real-time inventory, automated email notifications, and user-friendly cart and checkout systems.

Airline Ticket Management - A Database

Developed a comprehensive airline ticket management database with SQL for schema design, PL/SQL procedures, and triggers, including advanced queries, views, and data manipulation.

Custom Compiler Project

Developed a custom compiler using Lex and Yacc, capable of handling directives, variable declarations, control structures, and functions with integrated error detection.

Cafe Management App - A desktop Application

Developed it using Java, JFrame, MySQL, and NetBeans, featuring product management, inventory tracking, order processing, financial reporting, and user authentication

TECHNICAL SKILLS

Programming Languages:	C	C++	JAVA	Python	SQL	Swift	Assembly	PL/SQL
Markup and Style Languages:	HTML	CSS	LaTeX	JavaScript				
Scripting Languages:	ASP							
Designing Software:	AutoCAD (2D only)							
Office Packages:	MS Word	MS Powerpoint	MS Excel					
Simulation Software:	Tinkercad							
Compiler Tools:	Yacc, Lex							

SCHOLARSHIPS AND AWARDS

Deans's Award

3 consecutive awards

The Dean's Award is given to students having a CGPA of 3.75 or above in an academic year.

Education Board Scholarships

Dinajpur Board

- General grade scholarship in the SSC exam given by the *Board of Intermediate & Secondary Education, Dinajpur*
- Talentpool scholarship in the HSC exam given by the *Board of Intermediate & Secondary Education, Dinajpur*

LANGUAGES


English

Fluent

Bangla

Native(Bilingual)

REFERENCES

Abdul Aziz, Assistant Professor,
Khulna University of Engineering & Technology
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