

# 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.

*ResearchGate* 🔗 *ArXiv* 🔗 *GitHub* 🔗

## 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

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

## SCHOLARSHIPS AND AWARDS

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### 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

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### English


Fluent

### Bangla

Native(Bilingual)

## REFERENCES

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