

# SHADIKA AFROZE

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<https://sadika1212/Portfolio>

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## EDUCATION

### Bachelor of Science

Computer Science & Engineering

Chittagong University of Engineering & Technology (CUET)

Chittagong, Bangladesh

2018 - 2023

CGPA : 3.76 / 4.00

Last two year: 3.92

Class Rank: Top 8%

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## WORK EXPERIENCE

### • Lecturer

Department of Computer Science & Engineering

East Delta University, Chittagong, Bangladesh

Sep 2023 - Present

#### Key Qualifications and Responsibilities:

- Created and maintained a welcoming, friendly, and engaging classroom environment where all students felt comfortable.
- Developed rigorous lesson plans and graded papers, quizzes, tests, and other assignments.
- Served as an academic advisor of 70 students.
- Served as co-advisor of EDU Computer Club.

**Courses Taken:** Data Structure, Data Structure Laboratory, Computer Fundamentals and Programming Basics, Computer Fundamentals and Programming Basics Laboratory, Differential Calculus, Coordinate Geometry & Complex Variables.

### • Software Development Intern

Oct 2022 - Nov 2022

#### BJIT

- Developed a Budget Management System using Node.js, MongoDB, and Bootstrap which facilitates budget creation, expense tracking, financial analysis with Visualization.

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## RESEARCH INTERESTS

Natural language processing (NLP), Large Language Model (LLM), Multimodal information processing, Vision Language Navigation, and Computer Vision.

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## RESEARCH EXPERIENCE

### Undergraduate Thesis

Conducted research titled "A Transformer-based Model for Image Caption Generation with Memory Enhancement". This study aims to generate descriptive sentences to accurately represent the content of an image. This work utilized a Vision Transformer as the primary encoder, replacing the traditional CNN, and integrated a Meshed Memory Transformer for Caption generation. This research is conducted under the supervision of Professor Dr. Asaduzzaman.

## Workshop Paper

Afroze, S., Hosna, A., Chowdhury, A., (Dec-2020). "Multilingual Cyber-bullying and Hate Speech Detection System Using Transformers", published at 1st national workshop on Big Data and Machine Learning (BDML 2020) page - 108. Certification

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## PROJECTS

### VisioQuest: AI-Image-Inquiry

Oct 2022 - Feb 2023

An advanced Visual Question Answering (VQA) project leveraging Vision Transformers (ViT) and RoBERTa for accurate image question answering. This work Utilized the DAQUAR dataset. Users can upload their own images and pose questions to receive relevant answers. This project is deployed on [[Hugging Face](#)] and the code is available on [[GitHub](#)].

### Image Caption Generator

Feb 2022 - Aug 2022

Developed a deep learning model that automatically generates captions for images. This work used CNN (Xception) for extracting visual features from images and RNN for predicting sentences (series of words). The Flickr8k dataset was used in this project. [[Github](#)]

### Hey-Chittagong

Jun 2021 - Nov 2021

Developed a dynamic responsive website that can be used to explore Chittagong city. It provides all the information about the tourist places of this city, hotels, restaurants, banks, and hospitals with an exciting blogging section.

Technologies used: Vanilla js, express, node js, Handlebars, bootstrap, MongoDB. [Github](#)

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## TECHNICAL SKILLS

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

**Web Development:** HTML, JavaScript, CSS, jQuery, PHP, NodeJs, Django.

**Database Management System:** MySQL, MongoDB.

**Machine Learning Libraries:** NumPy, Pandas, SciKit-Learn, spaCy, Keras, TensorFlow, PyTorch.

**IDE Experiences:** Google Colaboratory, PyCharm, Code Blocks, Android Studio, Eclipse, Visual Studio Code, Notepad++, LaTeX.

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## AWARDS & EXTRA CURRICULAR ACTIVITIES

- Nominated for DEAN'S Award (CGPA 3.75+)
  - Attended workshop on IoT-Based Smart Campus. Certificate
  - Banglalink Womentor Program for Women in Tech, Bangladesh (Virtual, 2021)
  - A volunteer member of the CUET Computer Club.
  - Was Debate Team Vice President in college.
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## LINGUISTIC PROFICIENCY

- English (Fluent Working Proficiency) TOEFL Score: 101
  - Bangla (Native Language)
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## REFERENCES

- Available on request