

A S M NASIM KHAN

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OBJECTIVE

To secure a lecturer position in a dynamic academic environment where I can leverage my knowledge, teaching skills, and passion for education to contribute to student success and institutional growth. I aim to foster an inclusive learning atmosphere, employ innovative teaching methodologies, and engage in continuous professional development. Additionally, I am committed to advancing my research, contributing to scholarly discourse, and supporting curriculum development.

EDUCATION

Bachelor of Computer Science & Engineering	2019 - 2023
BRAC University, Dhaka	CGPA: 3.83/4.00
Higher Secondary Certificate (HSC) Dhaka	2015 - 2017
Rajuk Uttara Model College, Dhaka	GPA: 4.33/5.00
Secondary School Certificate (SSC)	2009 - 2015
Cumilla Zilla School, Cumilla	GPA: 5.00/5.00

EXPERIENCE

Adjunct Lecturer at BRAC University, Oct 2024 - Present

- Designing and conducting engaging lectures and practical lab sessions to enhance students' understanding of web development principles and best practices.
- Collaborating with fellow faculty members to continuously update course materials, ensuring alignment with the latest industry trends.

Course Instructor at EShikhon.com, Green Rd, Dhaka, Bangladesh Apr 2024 - Present

- Conducting Python Programming courses with a focus on Django Web Development incorporating MySQL and Git into the curriculum.

Digitalyst Intern at Banglalink Digital Communications Ltd, Gulshan 1, Bangladesh Feb 2024 - May 2024

- Developed a script generator for GBTS Cell as part of the Banglalink OMC App project, utilizing PHP, Laravel, JavaScript, JQuery, and MySQL to deliver efficient solutions.
- Collaborated effectively with the HR team to manage and streamline the intern requirements process.

Student Tutor at BRAC University May 2022 - Dec 2023

- Taught Python-based courses, including CSE110 (Programming Language I), CSE111 (Programming Language II), CSE220 (Data Structures), and CSE221 (Algorithms), delivering clear and engaging instruction and support.
- Reviewed and provided feedback on student assignments to support their learning and improvement.
- Assisted faculty during lab hours and conducted weekly consultations to offer additional support and guidance to students.

Student Mentor with Office of Academic Advising (OAA) at BRAC University May 2022 - Dec 2023

- Facilitated a smooth transition for first-year students by organizing group and individual advising sessions, while collaborating with students, faculty, administrative staff, and parents to optimize their university experience.
- Conducted tutorial sessions for 100-level courses, addressing student concerns and enhancing their academic experience.

RESEARCH EXPERIENCE

Automated Reference Validation for Scholarly Publications using NLP Jan 2023 - Dec 2023

Undergraduate thesis under the supervision of [Dr. Md. Golam Rabiul Alam](#) and [Dr. FarigYousuf Sadeque](#).

- Developed an advanced automated referencing validation model using Natural Language Processing (NLP) to generate sentence embeddings and apply topic modeling for context-based section grouping.
- Implemented an algorithm to calculate semantic similarity between references and query articles, effectively addressing issues such as non-contextual name entities.
- Collected data from IEEE Xplore and Pubpeer, creating a dataset of widely cited papers and their references, while ensuring quality through rigorous cross-validation and incorporation of expert-reviewed invalid references.
- Addressed dataset imbalance by generating synthetic data using AI tools and manual methods to enhance the representation of invalid references, improving the robustness of the model.

- Developed a system that generates lodging recommendations based on user-generated feedback and reviews using sentiment analysis.
- Conducted a comprehensive preprocessing phase, including data cleaning and feature extraction, to prepare the dataset for model training.
- Evaluated multiple models, achieving the highest accuracy with the RNN-LSTM model, demonstrating the effectiveness of deep learning in capturing complex textual dependencies.
- Aims to enhance decision-making in the hospitality and tourism industries through improved recommendation systems.

SKILLS

Technical Skills	Python, Java, JavaScript, C/C++ Basic, PHP, Laravel, MySQL HTML Basic, CSS Basic, Django framework, Git and Github, LaTeX
Software Skills	Microsoft Office (Excel, Word, PowerPoint), Photoshop

PROJECTS

- ❑ **E-Pathshala** Built an online skill learning website. Users can buy courses, upload courses and Admin has their special management feature. This project was implemented using Laravel, PHP, MySQL and MVC architecture. Built another version by using Django, CSS and HTML. ([Try it here](#))
- ❑ **Laptop Price Prediction** Developed a machine learning model to predict laptop prices using Python and various regression techniques. The project involved extensive data preprocessing and feature engineering on a dataset containing laptop specifications such as CPU, RAM, GPU, screen size, storage, and price. I used data visualization techniques like histograms, bar plots, and heatmaps to explore trends and identify key factors that influence the price of laptops. ([Try it here](#))
- ❑ **NLP based Depression Detection** Build a project that Detectes Depression from social media posts using Sentiment analysis, NLP, Machine Learning and Deep Learning. ([Try it here](#))
- ❑ **Tic-Tac-Toe Game** developed a Tic-Tac-Toe game using Python and OpenGL, which significantly enhanced my programming and graphical rendering skills. The project involved implementing game logic to manage player moves, input validation, and win detection. I designed and rendered an interactive game board with OpenGL, which improved user experience through effective visual feedback. This experience deepened my understanding of graphical programming and real-time user interaction, allowing me to apply creative solutions to enhance gameplay. ([Try it here](#))
- ❑ **Java Calculator Application(.jar)** This program was created by NetBeans java forum. ([Try it here](#))

AWARDS

- ❑ **VC's List** Awarded 3 Semesters
- ❑ **Dean's List** Awarded 3 Semesters
- ❑ **Merit Based Scholarship** Awarded 50% merit based Scholarship at BRAC University

CERTIFICATES

- ❑ **Command Line in Linux** Course offered by Coursera ([Show credential](#))
- ❑ **Python Data Structures** Course offered by Coursera ([Show credential](#))
- ❑ **Using Python to Access Web Data** Course offered by Coursera ([Show credential](#))
- ❑ **Cleaning Data in Python** Course offered by DataCamp ([Show credential](#))
- ❑ **Feature Engineering for Machine Learning in Python** Course offered by DataCamp ([Show credential](#))
- ❑ **Introduction to Python** Course offered by DataCamp ([Show credential](#))
- ❑ **Machine Learning with Tree-Based Models in Python** Course offered by DataCamp ([Show credential](#))
- ❑ **Introduction to Git and GitHub** Course offered by Google ([Show credential](#))

REFERENCES

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