SHREYA ADRITA BANIK

Machine Language | NLP | Software Development Enthusiast

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shreyaadritabanik

EXPERIENCE

Teaching Assistant/Student Tutor

BRAC University | CSE Department

2022 – 2025 Dhaka

- Provided academic support to students taking Data Stuctures, Programming Language I and II, Numerical Methods course
- Mentored 150+ students by giving consultation 15 hours each week

Math Instructor and Content writer

UDVASH Academic and Admission Care

2021 – 2022 Dhaka

- Taught General Math for Secondary Scool Certificate Exam candidates
- Helped to create English Version Chemistry teaching content

EDUCATION

B.Sc.

Computer Science and Engineering, BRAC University

2021 – 2025

CGPA: 3.98/4.00 Merit Based Scholarship

HSC

Viqarunnisa Noon School & College

2020

GPA: 5.00/5.00 General Scholarship

SSC

Mohammadpur Preparatory School & College

2018

GPA: 5.00/5.00 General Scholarship

SKILLS

Programming Languages: Python JAVA C++ HTML CSS

Framework: MERN TensorFlow PyTorch

ML & NLP: Scikit-learn NLKT spaCy LLMs Transformers

Web Devolopment: JavaScript PHP HTML CSS

Tools: Arduino MySQL

Others: Competitive Programming Problem Solving Team Collaboration

COMPETITIONS

5th, BRACU All Girls Intra University Programming Contest
2023

Best All Girls Team, BRACU Intra University Programming Contest
2022

66th, 2022 National Girls' Programming Contest
2022

PROJECTS

FitHoba, Diet Planner Website

MERN stack

Software Development

- Developed a full-stack meal planner and diet tracking website based on users' BMI, dietary preferences, and calorie goals along with meal and workout generation functionalities by integrating AI models (Mistral AI and Gemini) and prompt engineering

Movie Review Classifier

TensorFlow

NLP

- Created a neural network classifier for IMDB reviews using Pandas, Keras, GloVe embeddings and trained neural networks and unidirectional and bidirectional LSTMs.

Pet Care Game

OpenGL

Computer Graphics

- Developed a virtual pet care game using OpenGL, enabling users to adopt, nurture, and interact with their virtual pet in a dynamic environment.

Sports Image Classification

TensorFlow

Computer Vision

- Built a deep learning model from scratch using CNN architecture in TensorFlow to classify 100 sports categories

CO-CURRICULAR ACTIVIES

- **Music** Classical Music, Shurer Dhara
- **Robotics** Former Member, IT Department, Robotics Club of BRAC Universiry
- Drawing and Painting
- Competitive Programming

RESEARCH INTEREST

Natural Language Processing

Thesis Work

Analyzing Political Bias in Media Discourse: A Computational Approach Using NLP to Examine Israel-Palestine Coverage