

# SHREYA ADRITA BANIK

Machine Learning | NLP | Software Development Enthusiast

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📍 Dhaka, Bangladesh

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## WORK EXPERIENCE

Ajunct Lecturer

BRAC University | CSE Department

📅 Jun 2025 – Sept 2025

📍 Dhaka

- Taught in labs of Algorithms, Digital Logic Design and Digital Systems Design/Robotics, reinforcing theoretical concepts through practical application
- Mentored 150+ students, offering over 6 hours of weekly academic consultation and individual support

Internship

Grameenphone Ltd.

📅 Apr 2025 – Jun 2025

📍 Dhaka

- Worked under Digital Platform, Payment and Partnership Department under Product Division
- Worked on the development of Payment Orchestration Layer of different digital platforms of Grameenphone Ltd.

Teaching Assistant/Student Tutor

BRAC University | CSE Department

📅 2022 – 2025

📍 Dhaka

- Provided academic support to students taking Data Structures, Programming Language I and II, Numerical Methods course
- Mentored 100+ 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 School 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

VC's List, Dean's List, 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 NLTK spaCy LLMs Transformers

Web Development: JavaScript PHP HTML CSS MySQL

Others: Competitive Programming Arduino Problem Solving Team Collaboration

# AWARDS & ACHIEVEMENTS

 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 that customizes meal and workout plans based on users' BMI, dietary preferences, and calorie goals. Integrated AI models (Mistral AI and Gemini) with prompt engineering for intelligent meal and workout generation. Conducted patent research on AI-driven nutrition planning to analyze existing innovations, ensuring novelty and compliance with prior art in the field.

Movie Review Classifier

TensorFlow

 NLP

- Built a neural network classifier for IMDB reviews using Pandas, Keras, GloVe embeddings, and LSTMs (uni/bidirectional) for sentiment analysis. Conducted prior-art research on NLP models and documented findings to optimize model performance.

Pet Care Game

OpenGL

 Computer Graphics

- Developed a virtual pet care game using OpenGL, allowing users to adopt, nurture, and interact with virtual pets in a dynamic environment. Conducted game design research and analyzed existing gaming to ensure innovation and uniqueness.

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 ACTIVITIES

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

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Natural Language Processing

[Thesis Work](#)

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