

# SUDIPTA MONDAL

Dhaka, Bangladesh

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🌐 [Sudipta Mondal](#)    📄 [mondalsudipta](#)

## Education

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### Brac University

Summer 2023 – Present

*Master of Science in Computer Science and Engineering*

*CGPA : 3.88/4.00*

*Dhaka, Bangladesh*

Thesis Topic: Self Supervised Learning

Supervisor: Md. Golam Rabiul Alam, PhD

### Brac University

2016 – 2021

*Bachelor of Science in Computer Science and Engineering*

*CGPA: 3.49/4.00*

*Dhaka, Bangladesh*

Undergraduate Thesis: Implementation of Real-Time Learning on Homomorphically Encrypted Visual Inputs

Supervisor: Muhammad Iqbal Hossain, PhD.

## Publications

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### Interpretable Bangla Sarcasm Detection using BERT and Explainable AI

*IEEE Conf.*

- Segmentation & Recognition of Bangla, Assamese and English (Handwritten, Typewritten, Computer Composed & Printed) characters

## Academic Projects

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### An Interpretable Approach to Classify and Explain Online Hate Speech Using LIME | CSE710

- Proposed a state-of-the-art Convolutional Attentional MaskingNetwork and Ensemble Network
- Obtained 76.12% accuracy on detecting FER

### Explainable Flight Fare Prediction Using Machine Learning Algorithms and LIME | CSE711

- Proposed a state-of-the-art Convolutional Attentional MaskingNetwork and Ensemble Network
- Obtained 76.12% accuracy on detecting FER

## Personal Projects

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### An Interpretable Approach to Classify and Explain Online Hate Speech Using LIME | CSE710

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### An Interpretable Approach to Classify and Explain Online Hate Speech Using LIME | CSE710

- \* Proposed a state-of-the-art Convolutional Attentional Masking Network and Ensemble Network
- \* Obtained 76.12% accuracy on detecting FER

## Technical Skills

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**Languages:** Python, Java, JavaScript, SQL

**Web Design/Version Control Tools:** HTML/CSS, Bootstrap, Git, Docker

**Developer Tools:** PyCharm, Jupyter Notebooks, Atom, Google Colab, VS Code

**Operating Systems:** Linux, Windows

**Software and Design Environments:** MATLAB, Proteus, UML

**Hardware Description and Modeling Languages (HDLs):** Verilog, VHDL

**Machine Learning Frameworks:** Tensorflow, Scikit-learn, Keras, Matplotlib, Numpy, Pandas

## Certificate & Awards

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### VC's List and Dean's List Award, Brac University

- Earned a position on the VC's List for the Spring 2020 semester with a **4.00 GPA**.
- Earned a place on the Dean's List for two semesters with a **3.80** and **3.87 GPA**.

### Online Course Certificates

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#### HTML5, CSS3 & Bootstrap 4 For Web Development

*Certification Authority: Bohubrihi*

**Nov 2021**

- ID: 7847-164-633-0511

#### SQL for Data Science

*Certification Authority: Coursera*

**Apr 2022**

- License Number: JZG9Y3KQWMRH

#### JavaScript Algorithms and Data Structures

*Certification Authority: freeCodeCamp*

**Feb 2022**

### Standardized Test Score

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**IELTS: Overall 7.0** (Listening 8.5; Reading 6.5; Writing 7.0; Speaking 6.0)

**GRE: 303** (Quantitative Reasoning 156; Verbal Reasoning 147; Analytical Writing Assessment 3)

### Extracurriculars

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#### President

*Brac University Film Club*

**2019-2020**

#### Volunteer Mentor

*13th Convocation of Brac University*

**2019**

#### Public Relations Coordinator

*HULT Prize at Brac University*

**2018**

### References

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#### Md. Golam Rabiul Alam, PhD

*Professor, Department of Computer Science & Engineering*

*Brac University*

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