

# Shutonu Mitra

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## EDUCATION

**Military Institute of Science & Technology**, Mirpur Cantonment, Dhaka  
*Bachelor of Science*, Computer Science and Engineering, CGPA: 3.65

**Holy Cross College**, Tejgaon, Dhaka  
*HSC*, Science, 2017 GPA: 5.00

**Holy Cross Girls High School**, Tejgaon, Dhaka  
*SSC*, Science, 2015 GPA: 5.00

## PROJECTS

**Cyberbully Detection & Classification:** A machine learning, neural network and natural language processing based project with an aim to find the best performing model for detecting and classifying cyberbully from collected Twitter data. (2021)

**Opinion Mining of Tweets Related to Mental Health:** An Exploratory Data Analysis based project to reflect public opinion related to common mental health problems such as anxiety, depression, OCD, schizophrenia, PTSD etc. through time-series analysis from collected twitter data. (2021)

**Predictis:** A medical decision making diagnosis system, which is an Android Application that predicts its user's future possibility of having Cardio-vascular diseases using Machine Learning, Data Analytics and IOT. (2021)

**PPD Coach:** A HCI based research project, for the purpose of recognizing if graphical scenery based screening tool proves to be more effective than standard screening tool. Technologies used are- Android & Graphic Design. (2021)

**ASMA:** A database project for saloon management system with database architecture for effective employee, customer, inventory and saloon services management system along with online appointment feature, using Oracle, SQL, HTML, CSS and PHP. (2020)

**A Game of Cyphers:** A program in C applying popular encryption algorithms to encrypt the given message. (2018)

## PUBLICATION

S. Mitra, T. Tasnim, M. A. R. Islam, N. I. Khan and M. S. Majib, "A Framework to Detect and Prevent Cyberbullying from Social Media by Exploring Machine Learning Algorithms," 2021 International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering (IC4ME2), 2021, pp. 1-4, doi: 10.1109/IC4ME253898.2021.9768450. [View Article](#)

## COMPUTER SKILLS

**Languages:** C, C++, Python, Java, Bash, Assembly, SQL, Matlab

**Web Development:** HTML, CSS, JavaScript, PHP, Bootstrap.

**Analytic Skill:** Data visualization (Tableau Python and R), Machine Learning (Python), Neural Network (Tensorflow), Natural Language Processing.

**Applications:** Eclipse, Visual Studio, Git, VMWare, VirtualBox, MySQL, Oracle, Atom, Matlab, Netbeans, Android Studio, Adobe XD , Figma , Jupyter Notebook

**Operating Systems:** Linux, Windows, Android.

## **COMPETITION EXPERIENCE**

- Inter University Girls' Programming Contest (IUGPC- Season 2) arranged by North South University
- National Girls Programming Contest 2018
- ICPC Dhaka Regional 2019

## **INTERNSHIP**

Telataalk Bangladesh LTD.

## **RESEARCH INTERESTS**

Machine Learning, Data Science, Natural Language Processing, Human computer Interaction.