

Shutonu Mitra

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EDUCATION

Military Institute of Science & Technology, Mirpur Cantonment, Dhaka
Bachelor of Science, Computer Science and Engineering, CGPA: 3.65/4.00

Holy Cross College, Tejgaon, Dhaka
Higher Secondary School Certificate, Science, 2017 GPA: 5.00/5.00
Achievements: Honorary Scholarship of Merit

Holy Cross Girls High School, Tejgaon, Dhaka
Secondary School Certificate, Science, 2015 GPA: 5.00/5.00
Achievements: Honorary Scholarship of Merit

RESEARCH EXPERIENCE

Student Researcher - Dept of CSE, MIST

Advisor: Dr. Muhammad Nazrul Islam Dec, 2021 - Present
Summary : Machine Learning and AI based research work in the domain of Health Care and Human Computer Interaction

Undergraduate Thesis - Dept of CSE, MIST

Advisor: Muhammad Shajahan Majib July, 2021- Mar. 2022
Thesis Title: Detection and Prevention of Cyberbullying from Social Media by Exploring Machine Learning Algorithms

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](#)

Islam, M.N., Raiyan, K.R., **Mitra, S.** et al. Predictis: an IoT and machine learning-based system to predict risk level of cardio-vascular diseases. BMC Health Serv Res 23, 171 (2023). <https://doi.org/10.1186/s12913-023-09104-4> [View Article](#)

KEY SKILLS

- **Languages:** C, C++, Python, Java, 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

PROJECTS

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. (2021-2022) [View Code](#)

PPD Coach: A HCI based research project, for the purpose of recognizing if graphical scenery based multimodal screening tool proves to be more effective than standard screening tool for detection of Postpartum Depression (PPD) in Bangladeshi Mothers. Technologies used are- Android & Graphic Design. (2021-Present)[View Code](#)

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)[View Code](#)

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 deep learning and transfer learning from collected twitter data. (2021)[View Code](#)

ASMA: A database project for salon management system built with Oracle for effective employee, customer, inventory, accounts and salon services management system along with online appointment feature, using Oracle, SQL, HTML, CSS and PHP. (2020)[View Code](#)

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

EXTRA -CURRICULAR & LEADERSHIP

- Organizer: National Collegiate Programming Contest 2021
- Volunteer : International Collegiate Programming Contest Dhaka Regional 2019
- Executive Committee Member: MIST Computer Club 2020 - 2021
- Member: MIST Robotics Club 2018 - 2021
- Participated in: Inter University Girls' Programming Contest (IUGPC- Season 2) arranged by North South University 2019
- Participated in: International Collegiate Programming Contest Dhaka Regional 2019
- Participated in: National Girls Programming Contest 2018

INTERNSHIP

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REFERENCES

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