

Sk Mainul Islam

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RESEARCH INTERESTS	Statistical Machine Learning, Learning Theory, Artificial Intelligence	
EDUCATION	Maulana Abul Kalam Azad University of Technology , Kolkata, West Bengal India Bachelor of Technology, Computer Science, August 2014 (expected graduation date: June 2018) <ul style="list-style-type: none">• Thesis Topic: “A Machine Learning System for the Automatic Detection and Gradation of Diabetic Retinopathy in Fundus Images ”• Advisor: Prof. Aruna Chakraborty• GPA: 9.22/10 West Bengal Council of Higher Secondary Education , West Bengal, India Intermediate/+2, Science (Physics, Chemistry, Mathematics), May, 2012 West Bengal Board of Secondary Education , West Bengal, India Matriculation, May, 2010	
RESEARCH PROJECTS	Machine Learning + Image Processing Advisor: Prof. Aruna Chakraborty	Undergraduate thesis, STCET July, 2017 - present <ul style="list-style-type: none">• This project deals with the development of a machine learning system to detect and identify the grade of Diabetic Retinopathy from the images of the fundus of the eye.• The project uses a Fuzzy Support Vector Machine for the purpose of classification and the results abide by WHO standards.• We are developing a GUI application targeted at doctors who can use it to aid them in the process of diagnosis.• The application will allow the user to use the pre-trained classifier proposed in this project or to to train his/her own classifier for the purpose of gradation of the supplied image. Xcos on Cloud Mentor: Prof. Kannan M Moudgalya
INTERNSHIPS	FOSSEE, IIT Bombay Summer 2017 <ul style="list-style-type: none">• Xcos on cloud is a project to port the core functionalities of Xcos to a browser-only version that can be used without installing additional plug-ins or software on the cloud.• Two way communication for TK Scale block, generation of graphs dynamically, 3-D graph generation, modification of block parameters at runtime, identification of blocks are implemented in this project.• The details of the project can be found at https://github.com/FOSSEE/xcos_on_cloud <ul style="list-style-type: none">• Successfully completed an internship in the Sponsored Project “Xcos on Cloud ” at FOSSEE(Free and Open Source Software for Education), IIT Bombay in the Summer 2017.• Attended the summer school by the Indian Institution of Science (IISc), Bangalore in the Summer 2016. Sessions on latest technologies and idea pitching were the keynote.	

- Successfully completed the CEP Short Term Course entitled “Object Oriented Programming and Data Structure in C++ ” organized by Department of Computer Science and Engineering, IIT Kharagpur in the Summer 2015.

CONFERENCES WORKSHOPS

- Attended the **International Conference on the Networked Digital Earth** (ICNDE 2018), March 2018, Northeastern University, Boston, USA; Indian Institute of Technology Kharagpur, India. The details of the conference can be found at <https://web.northeastern.edu/sds/ICNDE2018/index.html>
- Attended the **9th International Conference on Reversible Computation** (RC-2017), July 2017, Kolkata, India.
- Attended the **Workshop on Complex and Social Networks**, March 2017, Complex Network Research Group (CNeRG), IIT Kharagpur.
- Attended the **IEEE Workshop on IoT and Smart Cities**, August 2016, St. Thomas’ College of Engineering and Technology, Kolkata.
- Attended the **Workshop on Computer Architecture and Numerical Methods**, June 2016, St. Thomas’ College of Engineering and Technology, Kolkata.

ACHIEVEMENTS

- Received the **Fellowship** (full financial support) to attend the **9th International Conference on Reversible Computation** (RC-2017), July 2017, Kolkata, India.
- Received the **Certificate of Merit** for achieving **3rd** rank in the **Workshop on Computer Architecture and Numerical Methods**, June 2016, St. Thomas’ College of Engineering and Technology, Kolkata.
- Received a **Certificate of Merit** in recognition of **excellent performance** in the **Secondary Examination** of 2010 from The **West Bengal Power Development Corporation Limited**.
- Awarded a **State Scholarship** for standing **7th in order of merit** in **Primary Final Examination**, May 2004, Primary Education Development Board, West Bengal.

COMPUTER SKILLS

- Languages: C, C++, Java, MATLAB, Perl, HTML, JavaScript, Verilog, some use of Unix shell scripts.
- Applications: L^AT_EX, common Windows database, spreadsheet, and presentation software
- Operating Systems: Unix/Linux, Windows.

EXTRA CURRICULAR ACHIEVEMENTS

- Selected for final round of **Mathemagic** at **Techfest 2015**, Institute of Engineering and Management, Kolkata.
- Successfully completed 2 days training(including field training) on **Workplace safety and Health**, Safety Development Society, Kolkata.
- Received a Certificate from **Perfetti India Pvt. Ltd.** for participating in the **Alpenliebe Mukhosh Protiyogita**, 2002, a mask making competition.