Mainak Pal Chowdhury

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[LinkedIn](#)   [Github](#)   [Portfolio](#)

Education

University of Victoria

Master of Engineering, Applied Data Science   April 2023
- Served as Teaching Assistant to professors for undergraduate courses.

SRM Institute of Science and Technology

Bachelor of Technology, Computer Science and Engineering   May 2018
- Secured 1st place in university wide competitive programming competition with over 2500 participants.

Technical Skills

C++	Sci-kit Learn	Matlab	Machine Learning
C#	TensorFlow	Tableau	RDBMS
Java	Pytorch	Software development	Data Science
SQL	Scala	Debugging	Data Analysis

Deep Learning	Data Preprocessing	AWS
Data Visualization	ETL	
NLP	Data Engineering	
Artificial Intelligence	Computer Vision	

Professional Experience

Siemens Technology and Services   Bengaluru, India

Software Developer Engineer   July 2018 - August 2021
- Engineered the migration of database tables from WinCC Audit 7.5.1 to 7.5.2, providing seamless onboarding of existing customers to the new software update.
- Resolved a memory leak in the WinCC IDB system, enabling less use of main memory in the execution of the application.
- Developed the WinCC Simatic Shell feature for WinCC IDB, thereby making it easy for customers to track data transfer status via Windows Explorer.
- Modeled and built the tracking of usage of functions/methods in the WinCC Cross-Reference system, making it convenient for users to track the application of their methods.

- Devised the system of direct drag and drop of graphic objects from Windows explorer to WinCC Graphics Designer, saving user time and effort.

Insurance Corporation of British Columbia   North Vancouver, BC
Data Engineer Co-op   January 2023 - April 2023
- Restructured the Data Governance pipeline in accordance to the new Collibra passing fractions rule, enabling a more accurate data quality metric in the organization
- Implemented new rules in the CMS pipeline in accordance with the business rules, enabling a more accurate CMS database.

Personal Projects

- Regression model for the energy prediction of a Combined Cycle Power Plant.
- Classification model of wheat kernels.
- LSTM model predicting Covid-19 cases in India.
- Finding causes of human stress and anxiety from subreddits.
- Classification of Forest Fires.
- Classification of Pokemon images.
- Analysis of reputation of restaurants using Twitter.

Certifications

- [Tensorflow Developer Certificate](#)   September 2020
- [Machine Learning A-Z](#)   May 2020
- [Deep Learning A-Z](#)   June 2020
- [Deep Learning and Computer Vision A-Z](#)   June 2020
- [Mathematics for ML: Linear Algebra](#)   September 2020
- [Mathematics for ML: Multivariate Calculus](#)   September 2020
- [Introduction to AWS](#)   June 2023

References available upon request