

EDUCATION

- **BRAC University** Dhaka, Bangladesh
Bachelor of Science in Computer Science Jan 2012 - Aug 2016
 - **CGPA:** 3.75/4.00 (Dean's List).
 - **Recipient:** Merit Based Scholarship for the duration of the entire program.
- **Udacity** Dhaka, Bangladesh
Machine Learning Engineer Nanodegree Nov 2019 - Feb 2020
 - **Capstone Project:** Implemented a LSTM model with 1D Convolution to accurately predict human Activities of Daily Living using the WISDM accelerometer and gyroscope dataset. Sponsored by my employer, the successful demonstration of this project paved the way to new business opportunities and a stronger product portfolio.

WORK EXPERIENCE

- **Therap (BD) Ltd.** Dhaka, Bangladesh
Software Engineer II, Machine Learning Oct 2019 - Present
 - **Responsibilities:**
 - * Lead the Machine Learning team.
 - * Created a team from the ground up by scouting, hiring, and training new talent.
 - * Trained a LSTM model to predict 5 Activities of Daily Living using accelerometer and gyroscope sensor data which led to the successful signing of two contracts, one with Garmin and another with Oracle Cloud. This greatly enhanced Therap's ability to serve its customers provide better healthcare.
 - **Related Technologies:** Python, Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Keras, TensorFlow, PyTorch, Amazon SageMaker, Google Cloud AI Platform.
- **Therap (BD) Ltd.** Dhaka, Bangladesh
Software Engineer, Full Stack Web Development Oct 2016 - Sep 2019
 - **Responsibilities:**
 - * Implemented various application modules from scratch, writing the backend, frontend, and database schema. This made Therap more competitive in terms of the number of features it offered allowing it to secure multiple State contracts.
 - * Reimplemented numerous older modules making them more performant, resilient and secure. This optimization improved server response time by 2x making pages load faster and more responsive.
 - * Implemented a multi-select drop-down JQuery widget with application specific customizations. This improved existing code greatly in terms of extensibility and functionality. Its ease of use and clarity of design led to widespread adoption internally by other software development teams.
 - **Related Technologies:** Java, JSP, Spring MVC, Hibernate ORM, PL/SQL, JavaScript, HTML, CSS, Gradle, Bash, Linux
- **We Are X** Dhaka, Bangladesh
Machine Learning Consultant (Contractual, Remote) Oct 2018 - Mar 2019
 - **Responsibilities:**
 - * Implemented a text classification model that could classify customer queries written in Bengali and English. This improved existing customer service representative productivity by 3x allowing We Are X to meet market demand, keeping existing infrastructure intact.
- **BRAC University** Dhaka, Bangladesh
Teaching Assistant Jan 2014 - Aug 2016
 - **Data Structures and Discrete Mathematics:**
 - * Graded quizzes.
 - * Provided one-to-one consultations and exam room invigilation.

- **Machine Learning with TensorFlow on Google Cloud Platform Specialization**
 - *Google Cloud Authorized Online Training*
 - **End-to-End Machine Learning with TensorFlow on GCP by Google Cloud on Coursera.** Certificate earned at **Saturday, January 12, 2019 4:58 AM GMT**: [Link to Certificate](#).
 - **Intro to TensorFlow by Google Cloud on Coursera.** Certificate earned at **Thursday, January 3, 2019 5:01 PM GMT**: [Link to Certificate](#).
- **Deep Learning Specialization**
 - *Online Courses Taught by Professor Andrew Ng of Stanford University* *Dec 2016 - Mar 2017*
 - **Deep Learning, a 5-course specialization by deeplearning.ai on Coursera.** Specialization Certificate earned on **April 9, 2018**: [Link to Certificate](#).
 - **Sequence Models by deeplearning.ai on Coursera.** Certificate earned at **Monday, April 9, 2018 1:34 AM GMT**: [Link to Certificate](#).
 - **Convolutional Neural Networks by deeplearning.ai on Coursera.** Certificate earned at **Saturday, March 10, 2018 4:36 PM GMT**: [Link to Certificate](#).
 - **Structuring Machine Learning Projects by deeplearning.ai on Coursera.** Certificate earned at **Monday, January 22, 2018 12:32 PM GMT**: [Link to Certificate](#).
 - **Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization by deeplearning.ai on Coursera.** Certificate earned at **Wednesday, January 17, 2018 5:16 PM GMT**: [Link to Certificate](#).
 - **Neural Networks and Deep Learning by deeplearning.ai on Coursera.** Certificate earned at **Friday, January 12, 2018 5:45 AM GMT**: [Link to Certificate](#).