# Md. Rayed Bin Wahed □ ○ ■

**EDUCATION** 

**BRAC** University

Bachelor of Science in Computer Science; CGPA: 3.75

Dhaka, Bangladesh Jan 2012 - Aug 2016

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Udacity

Dhaka, Bangladesh

Machine Learning Engineer Nanodegree

Nov 2019 - Present

Work Experience

Therap (BD) Ltd.

Dhaka, Bangladesh Oct 2019 - Present

Machine Learning Engineer

o Responsibilities:

- \* Lead the newly established Machine Learning team.
- \* Working on Human Activity Recognition (HAR) from triaxial accelerometer and gyroscope data received from smartwatches.
- \* Exploring Machine Learning backed solutions to problems in the Intellectual and Developmental Disability (I/DD) space.
- 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

Oct 2016 - Sep 2019

- Responsibilities:
  - \* Experience developing and maintaining Java EE and SaaS applications.
  - \* Strong understanding of Object Oriented Programming, Design Patterns, Data Structures, and Algorithms.
  - \* Thorough understanding of RDBMS and a demonstrated ability in database design.
  - \* Experience working with Oracle WebLogic Server, Oracle Database and other Oracle Enterprise tools.
  - \* Experience in Agile software development methodologies and Test Driven Development.
  - \* Experience with Version Control Systems such as Git, Github, and Bitbucket.
  - \* Experience with dependency management and build tools such as Ant, Maven, and Gradle.
  - \* Adept at configuring and deploying applications in Unix-like systems.
  - \* Expertise in HTML, CSS, Javascript and its many libraries.
- o Related Technologies: Spring MVC, Hibernate ORM, SQL, Bash

BRAC University
Teaching Assistant

Dhaka, Bangladesh

Jan 2014 - Aug 2016

- o Data Structures and Discrete Mathematics:
  - \* Grade quizzes.
  - \* Provide one-to-one consultations.
  - \* Assemble and distribute supplementary study materials.

#### Projects

# **Plagiarism Detection**

Dhaka, Bangladesh

Dec 2019

Detect plagiarized text

#### o Particulars:

- \* Examine a text file and perform binary classification. Identifies whether the text is plagiarized depending on how similar it is to a provided source text.
- \* As a measure of similarity, calculate Containment and Longest Common Subsequence (LCS) features suggested by the relevant paper.
- \* Train and deploy a Scikit-Learn SVC model using the Amazon SageMaker managed environment.

## Sentiment Analysis Web App

Classify a movie review as positive or negative

Dhaka, Bangladesh Dec 2019

#### o Particulars:

- \* Use the IMDB Movie Reviews dataset to train a custom PyTorch LSTM model.
- \* Deploy the model in Amazon SageMaker and expose a public REST endpoint with the help of AWS Lambda functions and Amazon API Gateway for real-time prediction.
- \* Link to Github

#### Online Customer Query Classification

Multi-class, multi-label text classification for We Are X

Dhaka, Bangladesh Oct 2018 - Mar 2019

#### o Particulars:

- \* We Are X provides online customer service support for large corporations and their customers.
- \* They were finding it difficult to scale to the growing number of customer queries.
- \* So I trained a TensorFlow Estimator model in Google Cloud ML Engine capable of classifying 9 categories of customer queries written in English and Bengali and served it using TensorFlow Serving for fast, concurrent usage.
- \* This improved existing customer service representative throughput by 3x allowing them to meet market demand keeping existing infrastructure intact.

### ACHIEVEMENTS

# 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.