

SOUMIK DAS

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HIGHLIGHTS

- Enthusiast in Data Science, AI and Natural Language Processing. Passionate practitioner and researcher in data analytics and machine Learning.
- Skilled in programming language like Python, MySQL, C#, Java and Linux environment.
- Good working knowledge in exploratory data analysis, data visualization, backend software scripting and problem solving.

EDUCATION

Master of Science, Computer Science
University of Alberta, Edmonton, Alberta

Sep 2018 - Jan 2020

Bachelor of Science, Computer Science and Engineering
Ahsanullah University of Science and Technology, Dhaka, Bangladesh.

2011 - 2016

EXPERIENCE

Data Scientist, Servus Credit Union, Edmonton, Alberta

May 2019- Dec 2019

- Supported a project “Sentiment Analysis for Financial Fitness (SAFF)” from early to advanced stages, collaborated with a team of three interns led by a technical lead and a professor from University of Alberta.
- Collected, analyzed and visualized large financial or transactional data and prepare training data.
- Executed exploratory data analysis and preprocessed training data for Machine learning model.
- Applied Natural Language Processing and sentiment analysis of text data generated from a chatbot.
- Improved existing ML model through hyperparameter tuning and supplied backend outputs to frontend.
- Handled MongoDB database, inserted, updated, deleted and performed autocorrection of real time captured data.

AI developer (Data), Safe Contact Solutions.inc, Edmonton, Alberta

Sep 2018- Dec 2018

- Contributed to a project with four other interns led by a technical lead also project specific data provided.
- Generated, Preprocessed, Augmented image dataset gathered from real environment.
- Preprocessed and removed noise of the dataset, tuned ML parameters to increase accuracy.
- Trained and tuned machine learning model using ML framework Tensorflow.

AI Project intern, Centre for Smart Transportation, University of Alberta

May 2019- Jul 2019

- Completed and continued the extension of the “Traffic Sign Detection using Yolov3” project along with three teammates with maximum accuracy.
- Generated labeled data and annotations, Augmented and preprocessed image of Traffic Sign Image Dataset.
- Collaborated with teammates for increasing accuracy of the model by parameter tuning.

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Lecturer, Computer Science, Daffodil International University, Bangladesh

May 2016 - Aug 2018

- Taught undergraduate Data mining, Network Programming, Java and C#.
- Was Involved in thesis works with Data mining, NLP.
- Supervised 10 small projects and helped in bug fixing and design analysis.

PROJECT INTERNSHIP WORKS

❖ Traffic Sign detection using YOLOv3. (MSc Course project)

- Continued project in association with Centre for Smart Transportation (CST), University of Alberta.
- Extracted, preprocessed, and augmented traffic sign image datasets to train and test CNN model using Tensorflow Supervised ML framework.
- Tools used: YOLOv3 (accurate object detection algorithm), Tensorflow, openCV, Image Processing, Image labeling software(labelIMG) and Python.
- Github : <https://github.com/sdbibon/Traffic-Sign-Detection-using-YOLOv3/tree/master>

❖ Hand washing environment detection. (MSc Course project)

- Continued project in association with Safe Contact Solutions Inc. Edmonton, Alberta.
- Generated and preprocessed datasets, trained and tested machine learning model with yolov2 object detection algorithm.
- Tools used: YOLO (faster object detection algorithm), Machine Learning, openCV, Tensorflow.
- Github : <https://github.com/sdbibon/Hand-Washing-Environment-Detection>

UNDERGRADUATE THESIS (DATA SCIENCE)

❖ Opinion Mining on Traveller Reviews and Ranking Hotels

- Extracted, analyzed sentiments and preprocessed data and applied supervised machine learning approach like Naïve Bayes algorithm and logistic regression.
- Related terms: Sentiwordnet 3.0, BeautifulSoup(Python Library), Textblob, Naïve Bayes, Natural Language Processing.
- Link: https://www.slideshare.net/slideshow/embed_code/key/hc7qQdXG4rnG4J

ACHIEVEMENTS

- ❖ Achieved “The Best Project” award for “Traffic Sign Detection using YOLOv3”. Provided by center for smart transportation (CST), University of Alberta.

VOLUNTERING AND PARTICATION

- ❖ Volunteered in Startup Edmonton Career fair, organized in University of Alberta. Regular participant in Data Science | Machine learning | AI meetups at startup Edmonton.
- ❖ Participated in Reverse Expo 2019, organized by Alberta Innovates. Also presented project poster “Traffic Sign Detection using YOLOv3”. Achieved the 5th position for project competition.