


Golam Sarwar Md. Mursalin, CSCA

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ABOUT ME

I am a **Data Science & Machine Learning Engineer** with hands on experience in **NLP, Python & Data Science tasks**. I have experience in data processing, analyzing and developing industry-oriented ML & DL systems. I am looking for a cooperative environment where I can apply and sharpen my skills with opportunities for continuous learning and growth.

WORK EXPERIENCE

Machine Learning Engineer

July, 2022 – Present

jobdesk®, Dhaka, Bangladesh

Profile Verification & NID Image Detection

- Developed a project of a job portal application regarding **profile verification, NID & selfie image detection**. Implemented CNN and other DL models for drawing face detection and various image detection.
- Developed and exposed **APIs** for integrating the ML models with applications using Django REST API
- Explored and studied methods, pre-processed data and extracted optimal features from data for improving the DL models.

Instructor of Supply Chain Management

Aug, 2020 – Nov, 2021

Learning Bangladesh, Dhaka, Bangladesh

- Researched and developed a course, Fundamentals of Supply Chain Management for the online learning platform as a contractual project.
- Shared tech-industry experience and the flow of SCM with students and young professionals.

INDUSTRIAL ATTACHMENT

BJIT Ltd, Dhaka, Bangladesh

Feb, 2022 – Nov, 2021

- Learned about SDLC and applied learning to a task regarding android app development
- Worked with the ML team understanding the features for a smart home application.
- Learned about different project management tools like Gerrit, Zira etc.

SKILLS

- **Technical skills:** Data Analysis & Visualization, Algorithms, Data structures, OOP, Python, Regular Expression, Git, Linux, Model serving (REST API) using Nginx & Unicorn, Test automation using Postman
- **ML & DL:** Linear/logistic regression, Random Forest, k-NN, Naive Bayes, Decision Tree, SVM, K-means clustering, CNN, RNN, LSTM, GRU, BERT, transformer approaches, Encoder-decoder, attention mechanism.
- **NLP:** Spacy, NER, preprocessing, tf-idf, word2vec, glove, FastText, Genism
- **Frameworks:** PyTorch, Tensorflow, Numpy, Pandas, Matplotlib, Spacy, Django, Easyocr, Django REST etc.
- **Cloud platforms:** Github, Gitlab, Heroku
- **Soft skills:** Communication, Team player, Adaptability, Time management

PERSONAL EXPERIENCE AND PROJECTS

Optical Character Recognition Project:

- Collected data for an optical character recognition (OCR) task. Preprocessed data and implemented character recognition models
- Developed and exposed **APIs** for integrating the ML models with applications using Django REST API
- Pre-processed, extracted optimal features from data for improving the DL models.

Data set annotation: For emotion classification, annotated a Bengali data set containing 6500 texts.

Waste Food Management System: Built in android studio for Software Engineering project using java

Informal Job Network: An algorithm & database-based android application for job searching

Business Data Market Analysis: Market sales data analysis of electrical and electronic product market in Chittagong for a contractual project

RESEARCH AND PUBLICATION

CUET-NLP@TamilNLP-ACL2022: Multi-Class Textual Emotion Detection from Social Media using Transformer

Accepted on The Second Workshop on Speech and Language Technologies for Dravidian Languages-ACL 2022 and selected for publishing.

- Developed a Deep Learning model that outperformed state of the art models to classify 11 emotions in shared task dataset of Tamil Language classes and the XLM-R model outdoes all other models by acquiring the highest macro f_1 -score

BSc. Thesis: Deep Learning-based Textual Emotion Recognition from Bangla-English Code-mixed Data

- Developed a Deep Learning model to classify 6 emotions from Bengali-English Codemixed language and the Word2vec + Bi-LSTM approach outperforms all other models.

EDUCATION

BSc. of Computer Science & Engineering Department of Computer Science and Engineering (CSE), Chittagong University of Engineering & Technology (CUET) CGPA: 3.15 out of 4.00	<i>Mar, 2017 – Jun, 2022</i>
Higher School Certificate Notre Dame College, Dhaka GPA: 5.00 out of 5.00	<i>Jul, 2014 – Jun, 2016</i>
Secondary School Certificate Ideal School & College, Motijheel, Dhaka GPA: 5.00 out of 5.00	<i>Jan, 2012 – Jun, 2014</i>

CERTIFICATION & ACHIEVEMENTS

- Certified Supply Chain Analyst – IESCA BD (60% Scholarship winner in PTAK Prize Competition)
- Machine Learning & AI – Contessa Solutions & consultants
- Engineering Project Management – Coursera
- 1st place in shared task competition on Emotion Analysis in Tamil-ACL 2022

EXTRA CURRICULAR ACTIVITIES

- General Secretary, CUET Model United Nations Club
- Advertising Secretary, CUET Computer Club
- Leadership – BYLC

LANGUAGES

Bangla (*Native*), English (*Professional*), Hindi (*Basic*)

REFERENCES

Dr. Md. Mokammel Haque

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