

Sk Golam Saroar

Dhaka – Bangladesh

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Education

BRAC University

Jan 2013 – Aug 2017

B.Sc in Computer Science & Engineering

CGPA 3.54 on a scale of 4.0

Thesis & Publication

Gomes, S. R., Saroar, S. G., Mosfaiul, M., Telot, A., Khan, B. N., Chakrabarty, A., & Mostakim, M. *A comparative approach to email classification using Naive Bayes classifier and hidden Markov model*. 4th International Conference on Advances in Electrical Engineering (ICAEE), IEEE, 2017.

Skills

Programming Languages: Python, Java, C++, SQL, JavaScript, R, Matlab

Expertise: Deep learning, CNN, RNN, NLP, PyTorch, TensorFlow, Keras, Scikit-learn, NumPy, OpenCV, NLTK, Matplotlib, Seaborn, Tableau

Data Analysis Skills: Data Cleaning, Data Visualization, Feature Selection, Pandas

Others: NoSQL, Spark, Kafka, Git, Docker, AWS

Work Experience

Dynamic Solution Innovators Ltd.

Dec 2017 – Present

Software Engineer - Machine Learning

- Predicted product sales to within 2% by applying logistic regression model with GridSearch.
- Developed, as part of a team, a customer segmentation algorithm leading to 12% increase in quarterly earnings.
- Migrated database vendor from Oracle to PostgreSQL and helped a Statement Delivery company save around 60,000 USD per year.
- Working for a Student Information System and ERP, I upgraded older plugins and libraries to latest versions, and wrote helper plugins myself, to speed up the website nearly two times.
- Made the same application entirely accessible and responsive, helping their product become 508-compliant, consequently drawing 20% more customers.
- Conceptualized and implemented a sentiment analysis tool using real-time tweets to better understand public sentiment on trending topics.
- Carried out an extensive study comparing XGBoost, Local Outlier, and Isolation Forest for detecting fraudulent credit card transactions.
- Conducted 5 ML workshop programs on the fundamentals of python and machine learning to up-skill current employees.
- Involved in debugging and troubleshooting issues and fixed many bugs in two of the main applications.

Projects

Topic Modeling from Newspaper Articles

Use local newspaper articles for topic modeling, and identifying positive and negative news. Sentiment analysis reports over different topics may act as a metric for the effectiveness of businesses and the government.

Improvise a Jazz Solo With an LSTM Network

Training an RNN on a corpus of Jazz music to generate novel jazz solos using 78 unique values.

Clustering Geolocation Data

Clustering taxi-locations data with K-Means, DBSCAN, and HDBSCAN to help build service stations for taxis in an efficient manner.

EDA in Breast Cancer Classification

Using Seaborn for exploratory data analysis and XGBoost to classify tumors as either benign or malignant.

Generating Synthetic Images with DCGAN

Building and training a Deep Convolutional GAN (DCGAN) with Keras to generate images of fashionable clothes.

Certifications

Deep Learning Specialization

August 2020

Authorized by deeplearning.ai, offered through Coursera

Amazon Web Services Cloud Practitioner

Nov 2019 – Nov 2022

Issued by Amazon Web Services(AWS)

Honors & Awards

BRAC University Academic Distinction

December 2017

- Received for graduating with a CGPA above 3.5

Director, BRAC University Adventure Club

Jan 2016 – Aug 2017

- Elected in General Student Voting.

Research Interests

- Artificial Intelligence
- Machine Learning
- Deep Learning
- Natural Language Processing
- Data Sciences and Analytics
- Software Engineering
- Human-computer Interaction
- Computer Vision

Standardized Tests

GRE- 328

Verbal- 161, Quantitative- 167

IELTS - 8.5

Reading- 9, Listening- 9, Speaking- 8.5, Writing- 6.5