Rashik **Islam**

!!! 17.06.1994

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in-LinkedIn

?-GitHub

Proficient in data-driven applications with a passion for solving real-world problems with predictive learning, deep learning, statistical modeling, and creating the feedback loop of learning mechanisms.

Work Experience

Nov 2021 - Feb 2024

DATA SCIENTIST Fresenius Group (Curalie GmbH), Berlin, Germany

- On top of the diagnosis model, a trust model was developed to automate laboratory tests. This improved detection accuracy by about 3-5%.
- Participated actively in the creation of a multilingual knowledge base of diseases, symptoms, risk factors, and lab testing
- Created and implemented HPO workflow for tuning machine learning models
- Built pipelines for monitoring deployed ML models
- Actively involved in the execution of statistical analysis and in-depth error analysis in order to promote a culture of learning from mistakes by utilizing incremental development cycles and feedback loops

Dec 2020 - Aug 2021

MASTER'S THESIS Charité – Universitätsmedizin, Berlin, Germany

- Construction of a data pipeline to clean/extract data from >100.000 clinical notes/reports
- Presented multi-modal deep learning strategy to predict Kidney graft rejection that enhances ML models by fusing neural network architectures
- Integrated both textual and tabular data which elevated graft loss prediction which resulted an improvement of 3-6% F1-score compared to baseline

Mar 2019 - Mar 2021

WORKING STUDENT, DATA ANALYTICS FUNKE Digital GmbH, Berlin

- Engaged in the development of eight chatbot applications in collaboration with end-users, i.e. journalists/department leads, that harvest data from different sources to generate weekly and monthly reports.
- Forecasting algorithms for 30 portals were created with an aim to enhance market understanding and maximizing return on investment.
- POC was conducted to determine whether an article should be placed behind a paywall system comparing several ML algorithms

May 2016 - Sep 2018

SOFTWARE RESEARCH ENGINEER Codemen Solutions Inc., Dhaka, Bangladesh

The company provides end to end IT solution for its clients and its edge being integrating smart data, AI with embedded solutions.

- Developed an application for steel rod factories to automate the process of rod counting through image processing technique
- Involved in developing Proof Of Concepts i.e. ArgosAI (in collaboration with premiseHQ), a digitized data stream activated through video cameras that can be used to count objects, manage the use of spaces.
- Actively took part in building ETL pipeline from different sources using Rest API



Education

May 2024 -TBD PH.D. IN ATMOSPHERIC SCIENCES University Of Houston, Houston, USA [Expected Start: May

2024]

Oct 2018 - Oct

MASTER OF SCIENCE (M.SC.) IN DATA SCIENCE Berlin University of Applied Sciences, Berlin,

Germany [CGPA: 3.7]

Thesis: "A multi-modal deep learning strategy for kidney graft loss prediction on imbalanced dataset."

Projects:

- Vision based absolute Pose estimation of Autonomous Vehicle using deep learning, Url
- Sudoku puzzle solver from images using deep learning, Url

Apr 2012 – Apr 2016 **BACHELOR OF SCIENCE (B.SC.) IN COMPUTER SCIENCE** American International University Bangladesh (AIUB), Dhaka, Bangladesh [CGPA: 3.7]

Thesis: "Automated Portable System for Bacteria Colony Counting & Contamination Measurement of Water Using Image Processing Technique"

Publications/Personal Projects

Jan 2024	PM2.5 CONCENTRATIONS IN TEXAS: A 7-DAY PREDICTIVE ANALYSIS 2024 preprint doi
Jan 2023	HYBRID MODEL OUTPERFORMED INDIVIDUAL MODELS IN PREDICTING DROUGHTS IN A SEMI-ARID REGION OF BANGLADESH 2023 preprint $\underline{\text{doi}}$
Oct 2020	POTENTIAL OF ARIMA-ANN, ARIMA-SVM, DT AND CATBOOST FOR ATMOSPHERIC PM2.5

POTENTIAL OF ARIMA-ANN, ARIMA-SVM, DT AND CATBOOST FOR ATMOSPHERIC PM2.5 FORECASTING IN BANGLADESH 2021 Atmosphere Journal Vol. 12, number 1, pages 100 doi

EVALUATING THE EFFICACY OF REED LEADING AND INVENIR MODEL ON FORECASTING

Skills

Programming **3+ years**: Python, **1+ years**: R | SQL, **1 year:** C++ | Javascript | HTML | CSS Languages

Database 1+ years: MySQL | Microsoft SQL Server | NoSQL

Ecanning Network | Estivi | Oldo | Italisionneis

Pyspark | Kafka | Streamlit

Others 1 year: Google Cloud Platform | AWS | FastAPI | Flask 1- year: Trifacta, 1+ years: Anaconda |

Jupyter Notebook | R Studio | Visual Studio, **2+ years:** Git | Trello

Languages Bangla: Native, English: Fluent, C2, German: Beginner, A1