Md. Rabbi Amin

Data Analysts

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mraminportfolio.streamlit.app

I am a Computer Science graduate from North South University currently pursuing an MSc in Data Science at Jahangirnagar University. My professional journey includes impactful internships and roles in two companies, where I honed my skills in data science and AI. I've showcased my expertise through various course projects, including developing a Python-based health survey dashboard, employing SVM for graph representation learning, and implementing algorithms like VGG16, CNN, RNN and Keras for MRI data in brain tumor segmentation. Proficient in Python and R, I excel in data visualization using tools like PowerBI and web frameworks such as Streamlit Dash. My diverse research areas encompass Supply Chain, Medical Imaging, and Environment. Simultaneously, I contribute as a Data Analyst at Monico Technology.

Professional Experience

08/2023 – present
Dhaka, Bangladesh

Data Analyst, *Monico Technology Ltd.*
Leveraging advanced data visualization tools such as PowerBI and Streamlit, I tailor insights to meet clients' specific preferences. Conducting Exploratory Data Analysis (EDA) on diverse client datasets, I identify crucial features and contribute to data-driven decision-making. I implement Time Series ARIMA models for forecasting with Order Sales data. Collaborating with both frontend and backend teams, I actively engage in creating APIs using FastAPI to seamlessly visualize client areas of interest.

Education

08/2022 – present
Savar, Dhaka, Bangladesh

MSc in Applied Statistics and Data Science,, *Jahangirnagar University*

01/2016 – 04/2020
Bashundhara R/A, Dhaka, Bangladesh

BSc in Computer Science and Engineering, *North South University*

2012 – 2014
Tejgaon, Dhaka, Bangladesh

Higher Secondary School Certificate, *BAF Shaheen College*

2010 – 2012
Belkuchi, Sirajganj, Bangladesh

Secondary School Certificate, *Sohagpur SK Pilot Model High School*

Skills

PROGRAMMING LANGUAGES (Python, R, PHP, C++)

PROGRAMMING LIBRARIES (NumPy and Pandas, Matplotlib and Seaborn, Scikit-learn, TensorFlow , Django dplyr and tidyr ,ggplot2)

PROGRAMMING FRONTED (HTML, CSS, Bootstrap) • **OPERATING SYSTEMS** (Windows, Ubuntu, macOS)

VERSION CONTROL TOOLS (Git)

PRESENTATION AND DOCUMENTATION TOOLS (Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Adobe Photoshop, Adobe After Effect)

Languages

Bangla **English**

Publications

2023

Minimizing Schedule Risk of Supply Chain, *Md. Rabbi Amin, Asif Iqbal, Animesh Kar, Protik Dutta, Shadman Alvy Khan, Sudipta Kumar Dhali,Md. Makfidunnabi, Md. Mohabbat Hossain Rubel, Dr. Mohammad Alamgir Kabir*
The supply chain management sector in Bangladesh faces so many challenges in minimizing schedule risk, this research paper targets to identify strategies that can help organizations to overcome this situation. The study includes a review of the literature, data collecting through surveys and interviews, and statistical data analysis. The findings demonstrate that companies in Bangladesh can reduce schedule risk by putting into practice strategies like enhancing stakeholder collaboration and communication, investing in technology to improve supply chain visibility, diversifying suppliers to lessen reliance on a single source, and creating backup plans for unforeseen disruptions. The study's conclusions offer useful advice for companies working in Bangladesh, particularly those in the industrial and retail industries, on how to manage their supply chains more effectively and lower the likelihood of schedule delays. The research adds to the sparse body of knowledge in academia about supply chain management in Bangladesh.

01/01/2021

Development of Web-Based Online Medicine Delivery System for COVID-19 Pandemic,, *Md. Rabbi Amin, Abdullah Al Mamun, Ahsan Ahmed Sajib, Mohammad Monirujjaman Khan*
We developed a dynamic web application for online medicine delivery during the COVID-19 pandemic, using Laravel framework and hosted on a dedicated VPS. The platform is fast, SEO optimized, and provides a reliable way to order medicines online. Users can browse different medicine categories, add items to their cart, and pay through a COD system. The system has been tested and works well, offering a convenient one-stop solution for buying medicines, including COVID-19-related drugs, online.

Projects

10/2022 – 11/2022

Assessment of Academic Performances of WM-ASDS students, *PMASDSNC01*
The dataset was collected through an online form and manually sampled to contain 20 records. It was cleaned, categorical variables were added and encoded, and explicit type conversion was performed. The analysis focused on the impact of variables such as employment status and distance from the university on exam performance. Visualizations such as boxplots and scatterplots were used to analyze the data.

01/2020 – 04/2021 **The Demographic and Health Survey Dashboard,** *Research (CSE498R)*
This project focuses on developing a dashboard that visually tracks and analyzes key performance indicators (KPIs) in medical health survey data. By using Dash, Flask, Plotly, Pandas, NumPy, dash_html_components, io, base64 and other Python libraries, we aim to simplify the process of exploring and visualizing data. Our dashboard is customizable to meet the specific needs of healthcare professionals and provides real-time monitoring of KPIs. This project aims to improve healthcare management by reducing the time and effort required for data analysis and promoting awareness and reflection through information visualization.

01/2020 – 04/2020 **Graph-Representation-Learning,** *Neural Networks (CSE465)*
Neural network Representation (Node to vector) of the data in a graphical way.
Algorithm: DeepWalk, SkipGram, Hierarchical Softmax
Tech stacks: Python, Pytorch

09/2019 – 12/2019 **Adorsholipi,** *Junior Project Design (CSE299)*
We developed an augmented reality mobile app that can detect images of Bangla alphabet through a smartphone camera and play related videos. The app is built using Vuforia for the image database, IBM Watson for sound recognition, and Unity for developing the PC and mobile app versions.

Interests

Research, Problem Solving, Coding, Travelling, Playing Football, Watching Movie

Certificates

- Multiple Variate Analysis

Extra Curriculum Activities
While studying engineering, I started photography and cinematography as a part-time job, discovering a talent for capturing moments and telling stories. Interacting with clients improved their communication skills, and managing a team of photographers and videographers taught leadership and project management. Overall, the experience has been fulfilling and has provided valuable skills in communication, leadership, and project management.

References

DR. MOHAMMAD ASHRAFUZZAMAN KHAN, *Assistant Professor, North South University,*
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