SUMAIYYA FAREED

summiya.fareed@gmail.com | (346) 521-9198 | linkedin.com/in/sumaiyyafareed

EDUCATION

University of Michigan - Dearborn — Dearborn, MI
Master of Science - Data Science | GPA: 3.8/4.0 — April 2024
Big Data, Pattern Recognition and Neural Networks, Deep Learning, Applied Regression Analysis

Birla Institute of Technology & Science Pilani (BITS Pilani) — Dubai, UAE
Bachelor of Engineering in Computer Science | GPA : 7.6/10 — June 2021

SKILLS

Programming Skills: Python, R, SQL (MySQL, SQLite, PostgreSQL), C, C++, Java, ETL, SAS
Libraries: Pandas, NumPy, SciPy, Scikit-Learn, Matplotlib, Seaborn, TensorFlow, Keras, PyTorch
Business Intelligence Tools: Tableau, SharePoint, Power BI, Microsoft Excel, Google BigQuery, AWS- Quicksight, Databricks
Technical Skills: Predictive Analytics, Data mining, Data Visualization, Machine learning, Market Analysis, Customer Retention
Certifications: AWS Solutions Architect- Associate (SAA – C03)

WORK EXPERIENCE

GKN Automotive (GKN Driveline North America Inc.) — Auburn Hills, MI
Data Scientist Intern – Knowledge based Engineering — Sept 2023 - Present

- Developed an ML model reducing testing errors by 10% and improving product features and postproduction analysis.
- Documented the modeling process, by creating a reusable template that reduced the time for future model development by **30%.**
- Developed & implemented ML algorithms to analyze large datasets, resulting in a **20%** improvement in data accuracy.

Chalhoub Group — Dubai, UAE
Data Analyst - Customer Segment — Sept 2021 - Aug 2022

- Built forecasting models encompassing various environmental factors & customer experience regional differences, resulting in a **10%** increase in average customer lifetime value.
- Uncovered valuable insights into customer behavior through extract, analyze, and review of more than **1.2M** customer records in Group loyalty database , helping marketing and experiences team achieve **15%** of their yearly target in the first quarter with the help of collaboration with the marketing team.
- Filter and cleanse unstructured (or ambiguous) data into usable data sets that can be analyzed to extract insights and improve business processes, data servicing, data cleansing & QC with the help of Google Big Query.
- Analyzed customer segment data to develop insightful dashboards and reports - using AWS - Quick Sight, providing easily digestible information to **500+ staff**.
- Introduced advanced analytics techniques such as predictive modeling to improve customer segmentation & developed a risk control model with **97% accuracy** to understand customer behavior, traffic monitoring & identify purchasing pathways , reducing team workload by about **6%**.
- Post-campaign analysis and ROI calculation, along with monitoring brand-wise KPIs, customer segmentation, and cohort analyses to identify key trends and optimize performance.

Emirates Hospital Group — Dubai, UAE
Application Engineer Intern — Jan 2021 - Aug 2021

- Facilitated communication between functional & development teams, leading to completion of projects within timelines.
- Organizational protocols & identifying inefficient processes through gap & impact analysis , reducing teamwork by**10%**.

ACADEMIC PROJECTS

Feature based Recommendation system using Ecommerce Data | *University of Michigan*

- Using advanced machine learning and data analytics, our project enhances the eCommerce experience with personalized product recommendations based on comprehensive user behavior and product feature analysis.
- Built Recommendation system that would give out the top 5 recommendations to purchase based on item-item model.

Prediction Analysis on rise in COVID-19 cases | *BITS Pilani*

- A Time-Series analysis of COVID-19 cases all over the world since the first recorded case. Machine learning algorithms like XGBoost, SVM , ARIMA, Polynomial Regression and Bayesian Ridge Regression were tested using data sourced by John Hopkins Covid-19 Statistics. Graphical Analysis used for predictions.
- Evaluation parameters such as MSE and MAE are used to calculate the values that the algorithms predict.

Heart Disease prediction using Data mining methods | *BITS Pilani*

- Developing Graphical and evaluation parameter analysis using Python and applying methods (KNN, Naïve Bayes).