

SAIF MUHAMMAD MUSFIR RAHMAN

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SKILLS

Machine Learning, Operations Research, Statistical Data Analysis, Mathematical Modeling & Optimization, Supply Chain Analysis, Recommendations Generation, SQL / NoSQL Database, NLP, Data Visualization, DevOps Knowledge and Acumen, Strong Leadership, Good Communication, Developing Sustainable Digital Business Solutions

TECHNICAL STRENGTHS

Programming Languages	Python, R, Java, C/C++, MATLAB, HTML, CSS
Machine Learning Libraries	Tensorflow, NLTK, Gensim, PyTorch, Keras, Scikit-Learn
Cloud Computing	GCP Cloud Storage, Cloud Functions, Pubsub, BigQuery, Kubernetes, AWS EC2, S3, EMR, Databricks
Database	MongoDB, Redshift, Databricks, PostgreSQL, BigQuery
Software & Tools	SAP, Tableau, Power BI, Airflow, Jenkins, CPLEX, GAMS
Big Data	PySpark, BigQuery, Vertex AI

WORK EXPERIENCE

Decathlon Canada June 2023 - Present
Senior Data Scientist

- Create and maintain optimal data pipeline, including algorithms and prototypes
- Analyze large-scale structured and unstructured data
- Apply advanced statistical methods such as regression analysis, clustering, factor analysis, time series analysis, and machine learning algorithms.
- Support and mentor team members in interpreting collected data and categorizing findings.
- GCP, AWS, Airflow, Jenkins, Databricks, Redshift, Python

Concured March 2023 - May 2023
Senior Algorithms Developer

- Build data models for new and existing enterprise infrastructure client markets.
- Recruit, mentor and train junior developers
- Python development
- GCP, Airflow, Algorithms, MLOps, DevOps

Concured June 2021 - March 2023
Algorithm and Systems Developer

- Engineered Personalization pipeline (dynamic and static recommendations)
- Drive end-to-end Machine Learning projects
- Designed and deployed recommendations API
- Algorithms, NLP, Machine Learning, Data Science

Concured April 2019 - June 2021
AI Developer - NLP

- Entity Extraction pipeline, Topic Modeling and Extraction, Text Summarization, Recommendation system, Content Marketing Intelligence

- Deploying and Maintaining Concured SaaS platform features via CI/CD
- NLP, DevOps

ARTIFICIAL INTELLIGENCE & OPTIMIZATION PROJECTS

Competitive Intelligence Tool - Designed a crawler to crawl and scrape competitors' websites to extract information on products offered related to the ones offered on Decathlon website. Used LLM and AI to match products and generate score based on features and functional similarity. The tool assisted the Country Brand Manager to get an overview and insights of the current market.

Web to Store Customer Analysis - Designed and executed a Web-to-Store campaign aimed at driving online customers to physical stores. Conducted an A/B test to evaluate the impact on sales and margins, resulting in actionable insights for optimizing future marketing strategies.

Supply Piloting - Automated extraction of supply data and performed analysis to provide business decision action points for retail suppliers

Flow Shop Scheduling With Uncertainty in Processing Times - Optimized the scheduling of a flow shop with processing time uncertainty using two meta heuristics algorithms.

Soccer Penalty Kick Optimization - Designed a penalty kick optimization model using quadratic programming optimization and Game Theory techniques for a player against a specific goalkeeper.

Vehicle Routing Optimization - Worked in collaboration with FedEx Canada as part of MASc thesis to optimize the forklift routing in one of their warehouses to minimize time and cost.

EDUCATION

Concordia University

MASc Candidate Operations Research

January 2017 - May 2019

Overall GPA : 3.67

Bangladesh University of Engineering and Technology

BSc in Industrial and Production Engineering

May 2010 - September 2015

Overall GPA: 3.67

COURSES TAKEN

Applied Machine Learning, Discrete Optimization, Stochastic Optimization, Scheduling Theory

POSITION OF RESPONSIBILITY

Fashol.com

AI and Supply Chain Analytics Manager

June 2022 - September 2022

Supervising team of Data Scientists and Product Managers to lead business intelligence and supply chain analytics for the business. Organized Sprint Plans and conducted daily Scrum meetings

Great Learning

Machine Learning Mentor

May 2021 - Present

Impacted 100+ students to launch their Data Science career through mentorship at an online learning platform. Responsible for the Data Science and Business Analytics (DSBA) and Machine Learning and Artificial Intelligence (MLAI) courses.

PROFESSIONAL LINKS

LinkedIn www.linkedin.com/in/saif-muhammad-musfir-rahman