TAWSIF KHAN

Uber Data Science | Master of Mathematics

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EXPERIENCE

Product Analyst II

Uber — 06/2019 - Ongoing

Transportation platform company

- Defined a set of metrics, implemented data pipelines and built a dashboard to help monitor Uber's payment systems. This identified issues that improved payment collection rates by 20 bps ($10M annually).
- Built an anomaly detection system for Uber's weekly payments that reduced Operations time consumption by more than 80%.

Senior Data Analyst

Rubikloud — 05/2018 - 05/2019

Retail based Artificial Intelligence Product Startup

- Built the campaign measurement module on Jupyter Notebook that measured all retail campaigns
- Evaluated the performance of machine learning models and recommend model improvements
- Built a model to measure the financial impact of the product that were used to drive demo, pilot and subscription renewal agreements.

Analytics Consultant

Aimia — 08/2017 - 05/2018

Marketing and Loyalty Analytics Company

- Developed profitable campaigns with personalized offers that reduce churn and improve member engagement in the Amex and CIBC Aeroplan portfolio
- Performed business reviews for partners and perform post-campaign analysis to derive key insights and actionable recommendations

Client Analyst

McKinsey Pricemetrix — 12/2015 - 08/2017

Product company helping financial advisors growth using analytics

- Built performance benchmarking analysis to help wealth management firms and advisors make fact-based decisions
- Developed automated systems to generate financial advisor reports
- Led the analytics performed for executive reviews of major wealth management firms in the North American industry

Research Assistant

University of Waterloo — 09/2013 - 08/2015

- Carried out independent and collaborative research in the Control of Infinite-dimensional Systems group
- Presented and critiqued concepts and results in regular research group meetings

EDUCATION

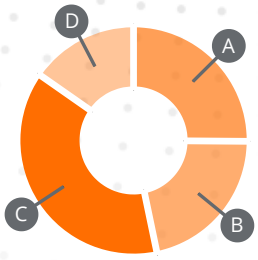
MMath, Applied Mathematics

University of Waterloo — 09/2013 - 08/2015

BS, Electrical Engineering

North South University — 05/2008 - 03/2013

MY TIME



- A Design and implement experiments for new product changes
- B Work with Product and Engineering to solve problems and identify opportunities
- C Design metrics, implement data pipelines , build datasets and dashboards
- D Help Operations solve service outages impacting payments

SKILLS

Tech Stack

Python | SQL | Presto | Hive | R | Jupyter Notebook | Data Pipeline | Data Visualization | MATLAB | PySpark

Industry Acumen

Experimental Design | Metric Design | Mathematical Modelling | Payments | Credit Cards | Retail | Loyalty

AWARDS

- TrafficJam Hackathon 2015 Winner
- Three Minute Thesis Finalist — University of Waterloo
- Summa Cum Laude — North South University
- Daily Star Certificate of Excellence

PROJECTS

Uber Partner Payments Anomaly Detection

Uber disburses payments to millions of partners (drivers and eats merchant restaurants) every week in more than 60 countries. I built a decision engine to identify payments that are anomalous and worked with the engineers to implement a fully functioning tool that stops anomalous payment going out automatically.

Campaign Measurement Module

Built a Python module to measure campaigns in a standardized manner. Functions include bootstrapped estimation, significance testing for binomial and non-binomial metrics, outlier handling and etc.

https://github.com/tawsifkhan/Campaign-Measurement-Module

Rainbow Railroad Data Philanthropy

Led a team of 13 in Aimia's 2018 Data Philanthropy event. Built a data cleaning and segmentation tool using R, and lead other 5 objective streams to deliver a full suite of operational improvement solutions to Rainbow Railroad, a Canadian charitable organization

Bootstrapping Data for Significance Testing

Introduced and implemented the concept of bootstrapping data to carry out significance testing on non-normal and non-binomial data sets

TrafficJam Hackathon 2015

Measured the variance of speeds from transit data to map the unreliability of Toronto's road network. This insight would allow commuters to make more informed route choices, and city planners plan events/constructions accordingly. The team won prize money of $5000.

Other Data Related Projects

- Used RShiny to create a visualization tool for the global terrorism database
- Implemented a TFIDF driven gradient boosting regression model for Kaggle Mercari Price Suggestion Challenge
- Implemented a random forrest classifier with some feature engineering for Kaggle What's Cooking Machine Learning Challenge
- Built a twitter data scrapper, cleaned the data and geo-tagged the tweets to carry out some analysis

PUBLICATIONS

Optimal Sensing of Wave Equation

American Control Conference

07/2015 https://bit.ly/2HvD0YG

Bootstrapping Data for Significance Testing

Rubikloud Technologies

07/2018 https://bit.ly/2RgmA6h

MY LIFE PHILOSOPHY

The joy of life comes from our encounters with new experiences

Christopher McCandless