Monica Iyer

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EDUCATION

UNIVERSITY OF WATERLOO
B.Math in Statistics
Dec 2020 | Waterloo

LINKS

Github - **m2iyer**
LinkedIn - **monica-iyer**
Kaggle - **monicaiyer**

COMMUNITIES

Grace Hopper Conference
Hack the North
UW Blueprint
StarterHacks
UW Information Technology
UW Virtual Reality
UW Women in STEM
Tech+ UW

COURSEWORK

Applied Linear Models
Advanced Statistics and Probability
Time Series Forecasting
Statistical Learning - Function Estimation
Stochastic Processes
Data Visualization and Biostatistics
Deep Learning and Neural Networks
Advanced SQL: Query Tuning and
Optimization

KEY SKILLS

Languages
Python • R • MySQL • Postgres
Scala • Java • HTML/CSS/JS • C
Frameworks
Pandas/NumPy • Tableau • Tensorflow
Scikit • AWS • Matplotlib • Google
BigQuery/Analytics • Gatsby • React
Tools
Visual Studio • Unity • Figma

EXPERIENCE

Keyhole | Data Scientist Intern
Sept 2019 - Dec 2019 | Toronto, ON

- Develop key Infrastructure mapping over 10000 customers to their Marketing Channels with Python - improved target market selection by 98%
- Built 10 automated KPI Tableau Dashboards to track sales, marketing metrics and financial growth
- In-depth study of key use cases from 5000 existing clientele and identification of valuable customers using ARPA, LTV and statistical methods

Ubiquitous Health Technology Lab | Research Intern
June 2019 - Aug 2019 | Waterloo, ON

- Used SQL and Python to qualitatively analyze health and sleep patterns across North American households - reduced dimensionality of massive datasets by 75%

University of Waterloo | Computing Consultant (Part-time)
Sept 2018 - Sept 2020 | Waterloo, ON

- Solved over 500 client IT requests and translated into actionable items, including scoping and documentation - highest rate in the team
- Consistently fixed dependency and kernel issues related to multiple OS's like Linux, MacOS, Windows

Sunlife Financial | Network Engineer Intern
May - Sept 2017,2018 | Kitchener, ON

- Independently handled a million-dollar Network Infrastructure project in Toronto - improved wireless technology capabilities by 35%
- Successfully operated and configured infrastructure of data center and load balancing structures with effective knowledge of C, LAN/WAN Technologies and Incident Management

Kamal Osman Jamjoom | Software Developer Intern
May 2016 - Aug 2016 | Dubai, U.A.E

- Refactored client-facing database and backend to create new API endpoints and deliver processed retail analytics to over 800 stores
- Developed wireframes and migrated the manual fabrics QA Process to an automated scheduled service using NoSQL, Java and FlairBuilder

PASSION PROJECTS

Company-X Churn Prediction in R + SQL

- Predict month-one retention for product X with over 1 million data points and operationalize these insights!

Baby Boom in R

- Explore methodologies used in Time Series Forecasting during the baby boom in New York City (1946 - 1959)

Real Estate Market in R

- Predict estate values of the housing market in Washington D.C, with over 30000 data points, 28 influencing factors and multiple modelling techniques.