

NIMESH YOGARAJAN

DATA SCIENCE & MACHINE LEARNING

CONTACT

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PROFILE

I am a Data Scientist who is passionate about creating high-impact products by using statistical modeling and data analysis techniques to solve challenging business problems

TECHNICAL SKILLS

- Python: [Pandas](#), [NumPy](#)
- Machine Learning: [Scikit-Learn](#)
- Deep Learning: [Keras](#), [Tensorflow](#), [PyTorch](#)
- Optimization: [SciPy](#)
- Data Visualization: [Plotly](#), [Dash](#), [Matplotlib](#), [Tableau](#)
- [SQL](#), [NoSQL](#)
- [Redshift](#), [Snowflake](#), [MongoDB](#)
- [AWS](#)

MANAGEMENT SKILLS

- Agile Development
- Project and Team Management
- [JIRA](#), [Git](#), [Trello](#), [Asana](#)

EDUCATION

2016 - 2021

UNIVERSITY OF WATERLOO

Bachelor of Applied Science,
Management Engineering

Relevant courses:

- Data Mining and Warehousing
- Statistics and Stochastic Models
- Optimization Models and Methods
- Data Structures and Algorithms

WORK EXPERIENCE

January 2020 – April 2020

Data Scientist | Miovision

Term Project: Signal Phase Predictor

- Created a dynamic tool that infers traffic signal phases using [SciPy](#) and [Optimization](#) techniques to increase product value by **70%**
- Developed a deep learning model using [Keras](#), [RNN](#) and [LSTM](#) for time series analysis of traffic signal patterns

Other Projects

- Re-designed internal dashboards using [Plotly](#) and [Dash](#) to capture impact of **COVID-19** on vehicle volumes
- Identified customer retention rates from user telemetry using [Pandas](#) and [Matplotlib](#) to deduce areas of improvement in traffic analytics website
- Measured impact of [A/B Testing](#) on analytics platform through statistical analysis in [Python](#)

April 2019 – September 2019

Data Analyst, Operations | Cardinal Health Canada

- Built alerting system to segment inventory SKUs by priority, reducing procurement costs by **over \$100,000**
- Performed customer segmentation analysis using [Pandas](#) and [Seaborn](#) to identify improvements for product distribution
- Developed scorecard using marketing metrics to identify insufficient vendors, yielding a max recuperation of **up to \$500,000**

September 2018 – December 2018

Engineering Specialist | Toyota Motor Manufacturing Canada

- Lead root cause analysis to rapidly identify production issues
- Applied statistical process control to optimize line efficiency

January 2018 – April 2018

Business Systems Analyst | Ontario Ministry of Environment

- Independently managed cross-functional team to deliver end-to-end air emission validation tool
- Trusted liaison to engage external clients with business stakeholders for effective project delivery

DATA SCIENCE PROJECTS

Salary Prediction

- Designed a tool to predict job salaries using [Linear Regression](#), [Random Forest](#) and [Gradient Boosting](#) to forecast salaries by minimizing the [Mean Squared Error](#)

Homevyne | Co-Founder

- Led a [data-driven start-up](#) for single living seniors to connect and share their living space, using ML techniques to increase market growth

COVID-19 Forecasting

- Designed a user interface that allows users to view COVID-19 forecasts