NIMESH YOGARAJAN

DATA SCIENCE & MACHINE LEARNING

CONTACT

- ✉ n3yogara@uwaterloo.ca
- 📞 (647) 720-1881
- 🏠 nimesh03.github.io
- 🌐 Toronto, ON
- in linkedin.com/in/nimeshyogarajan
- ○ github.com/nimesh03

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**
- **Hadoop (Hive, Pig)**
- **Docker, Kubernetes**

MANAGEMENT SKILLS

- Agile Scrum 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

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

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
- Measured impact of **A/B Testing** on analytics platform 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

Homevyne | Co-Founder

- Led a **data-driven start-up** for single living seniors to connect and share their living space
- Increased market growth by **over 60%** by using ML techniques to predict regions to target for sales outreach

COVID-19 Forecasting

- Completed deep dive analysis of COVID-19 across all countries
- Forecasted weekly numbers using **SVM** and **ARIMA** methods

Cancer Image Classification

- Applied **Tensorflow** and **CNN** to classify IDC (cancerous) images