

Rachel Kessler

Data Analytics | Business Intelligence | Machine Learning



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github.com/rachel-kessler/portfolio

Experience

Business Consultant

Dec 2018 – Sep 2019

Propel Solutions Ltd., Vancouver, BC

- Improved sales operations processes to increase profit levels by 10% for a global distributor by conducting a financial driver analysis and developing KPIs and PowerBI dashboards to link strategy, forecasting, and execution control
- Reduced Colliers' post-acquisition IT integration timeline by 50% by developing global standardized project and risk management processes
- Merged two BC Ministry of Education procurement entities through analysis of staff capacity, development of province-wide communication plans, and design of key operational processes

Capital Engineer Intern

May 2016 – Aug 2017

Boehringer Ingelheim, Kansas City, MO

- Managed capital projects including an HVAC upgrade and an industrial fan installation with budgets up to \$100,000
- Collaborated with vendors and subject matter experts to develop a scope of work, created and reviewed technical designs, bid the contracts, and coordinated with contractors to schedule and implement the work
- Performed economic, technical, and operational feasibility studies for the replacement of small tanks with a solar powered bulk tank

Research Assistant

Jan 2015 – May 2017

University of Iowa College of Medicine, Iowa City, IA

- Designed and executed experimental procedures to clone mice cells
- Performed statistical analysis on acquired data for the study of diabetes
- Published findings regarding a potential diabetes treatment and presented the data at a research conference

Projects

Customer Value Predictions & Segmentation

Aug 2019 – Jan 2020

Python, SciKit-Learn, XGBoost, Plotly

- Partnered with a local B2B manufacturer to fit a clustering model on customer attributes resulting in a segmented approach to marketing
- Developed a classification model to predict if potential new customers will contribute annual revenues above \$5000 using a 10-year sales dataset

MNIST Digit Classification

Nov 2019 – Dec 2019

Python, SciKit-Learn

- Tested machine learning classification models in order to predict handwritten digits
- Conducted 5-fold cross validation to optimize the hyperparameters

Montreal Bike Sharing Analysis

Aug 2019 – Sep 2019

SQL, Tableau

- Conducted an analysis on a database of 10+ million bike sharing trips in Montreal
- Analyzed trends based on time, location, and membership status

Dimethyl Ether Facility Design & Economic Analysis

Jan 2018 – May 2018

ChemCAD, Aspen, Excel

- Designed a manufacturing facility to produce 250k gal/day of dimethyl ether
- Conducted an economic analysis which resulted in a projected 10.7% ROI

Profile

High-achieving and forward-thinking analyst offering a background in continuous process improvement consulting and engineering.

Passionate about utilizing data and mathematics to keep companies agile and innovative to improve the customer experience.

Skills

Databases: SQL

Programming: Python, C, MATLAB

Statistics: Hypothesis Testing

Data Visualization: Tableau, PowerBI, Plotly, Seaborn

Neural Networks: Tensorflow, Keras, Pytorch

Big Data: AWS, Hadoop, Spark

Education

Diploma in Data Science

BrainStation – Vancouver, BC

Graduation Date: Dec 2019

Bachelor of Engineering, Chemical Engineering

University of Iowa – Iowa City, IA

Graduation Date: May 2018

GPA: 4.10/4.33

Certifications

LEAN Bronze – 2019

PROSCI Change Management – 2018