JIRI STODULKA

www.linkedin.com/in/jiristodulka/

• www.jiristodulka.com • jiri@jiristodulka.com • https://github.com/jiristo • (647)290-5049 • Toronto, M4E 2W9

SOFTWARE & SKILLS

Python: Machine learning (Scikit-Learn), recommender system (Surprise), visualization (Matplotlib, Plotly, Folium), IBM Watson (NLP)

R: Machine learning (regression), statistics, text-sentiment analysis, visualization (ggplot), time-series (ARIMAX), latent class analysis (e1071), MySQL (DBI)

WORK HISTORY

Business Development Data Scientist, SALESCHOICE INC. 03/2019 – present (Toronto)

- Utilized IBM Watson and Natural Language (NLP) toolkits for R&D. Used linguistic analytics to infer individual personality characteristics from digital communication.
- Coordinated with IBM on OCE grant R&D Project.
- Launched enterprise sales cycles with major clients (e.g., Stripe, AdRoll).
- Created a playbook to communicate the value of AI to these and other clients.

Data Analyst, GEMINI EYE CLINIC 09/2016 – 07/2018 (Prague)

- Initiated the idea of implementing a franchise model for the clinic. Performed background research (including traveling to the Netherlands to talk to franchising expert) and built ML models to predict the effect of the strategy on profits.
  Helped put in place the new franchising model, which ultimately increased revenues by 15%.
- Designed custom-built franchising model and shared knew knowledge in thesis.
- Worked with large datasets, e.g. wrote SQL queries in R Studio (DBI), utilized tidyverse.
- Utilized data visualization techniques and created dashboards; e.g. ggplot2 in R and Pivot Charts.

Data Analyst (Project): BAUSCH AND LOMB 06/2016 – 08/2016 (Toronto)

- Translated data insights to outsourcing company; reduced loss on service operations by ~ 30%.
- Identified Canada-wide maintenance costs; improved utilization of the personnel by ~ 50 %.
- Cleaned, visualized, and analyzed data.

DATA SCIENCE PROJECTS

Projects and GitHub: www.jiristodulka.com or www.inspectplot.com

Reinforcement Learning and Optimal Sequence: Final Master's Project for COGVIO 2018 (Prague)

- Developed launch sequence for innovative drugs; increased pharmaceutic company's revenue by 17%.
- Programmed genetic algorithm for SaaS in R; advised policies to gov't/public sector.

Toronto Crime and Folium 2019

- Received acknowledgement from the Toronto Police Department on LinkedIn.
- In Python, clustered criminal neighborhoods in interactive heatmap.
- Concluded there is 5% chance to be bodily harmed in assault.

Machine Learning and Diabetes 2019

- Improved previous work by integrating cross-validation and hyperparameters in pipeline.
- In Python, utilized K-NN, logistic regression, decision trees, and random forest on diabetes dataset.
- Recommended to use recall as a less biased and more appropriate performance measurement.

Web Scraping Reddit: Text (Sentiment) Analysis 2019

- Visualized sentiment in time and performed text analysis; e.g. identified causes of negative sentiment.
- In R, scraped Reddit forum: Cannabis Legalization in Canada.

Naïve Bayes and Fake News Detection 2019

- In R, applied Naïve Bayes on data set with fake and reliable news. Achieved 70% accuracy.
- **GitHub**: https://github.com/jiristo/naive-bayes

EDUCATION

MA in Applied Economics (Machine Learning, Data Science, Quantitative Research) 2018

Center for Economic Research and Graduate Education – Economics Institute (CERGE-EI)
CERGE-EI is in top 5% of globally ranked Economics institutions; US-Chartered Degree - New York.
Elected as a Speaker at Graduation Ceremony

BSc in Business Administration (Statistics, Economics) 2017

State University of New York in Prague (UNYP)
UNYP offers Bachelor's, Master's and PhD programs in partnership with US/European Universities.
Academic Recognition for outstanding GPA