FINBARR TIMBERS

Github: github.com/finbarrtimbers   (780) 729 8784

EMPLOYMENT

DARKHORSE ANALYTICS   Edmonton, AB
Data Scientist   July 2015 —

- Developed scalable machine learning model for government ministry to predict international trade.
- Used distributed cluster on AWS to process large data set (120GB of raw data, 10GB of cleaned data).
- Designed machine learning model for benefits provider to predict most costly applicants.
- Commmunicated the results of technical analyses to senior management in an understandable manner.
- Applied software development skills to develop tools that client could modify without ML knowledge.

VARIOUS CLIENTS   Edmonton, AB
Consultant   August 2014 —

- Lead a team to build an iOS app for a small engineering firm.
- Lead a data team for a municipal byelection campaign.
- Developed scalable data mining programs for client enabling them to analyse millions of records from disparate sources in a central database.

UNIVERSITY OF ALBERTA   Edmonton, AB
Instructor   January 2017 —

- Taught senior business undergraduates and MBA students Monte Carlo simulation (OM 422/622).

EDUCATION

LONDON SCHOOL OF ECONOMICS   September, 2014 — July, 2015
M. Sc. Econometrics & Mathematical Economics

UNIVERSITY OF ALBERTA   2010 — 2014
B. Sc. (*Hons*) Mathematics & Economics, 3.6 GPA (3.9 last two years)

- GRE: 166Q, 168V, 5.5W.
- Undergraduate silver medallist in Mathematics (2nd highest GPA in math).

PUBLICATIONS

1. Aggarwal, K., Timbers, F., Rutgers, T., Hindle, A., Greiner, R., and Stroulia, E. "Detecting Duplicate Bug Reports using a Hierarchy of Domain Knowledge Contexts" Journal of Software: Evolution and Process, August 2016.
2. Aggarwal, K., Rutgers, T., Timbers, F., Hindle, A., Greiner, R., and Stroulia, E. "Detecting Duplicate Bug Reports with Software Engineering Domain Knowledge." 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER).

PROJECTS

- *www.BugDedupe.com*: Lead team to develop a website where users can analyse their Github Issues to find and merge duplicates easily.
- *Oil Price Forecasting*: Worked with a team of graduate students at the University of Alberta to develop an oil price forecast using a RNN. Beat Bank of Canada by 20%.
- Minor open source contributions to Tensorflow, Incanter.

LANGUAGES & TECHNOLOGIES

- Proficient: Python, R, shell scripts, SQL. Prior experience: C++, Javascript.
- Frameworks: Tensorflow, Scikit-Learn, Keras.
- Tools: Docker, Kubernetes, MySQL, SQL Server, git, UNIX command line utilities, PDB, GDB, virtualenv.

TALKS

- *A talker on Docker*, Edmonton Data Science Meetup, October 5th, 2016.
- *Automating your work away: One consulting firm's experience.*, UseR! 2016, July 27th, 2016.