FINBARR TIMBERS

Github: github.com/finbarrtimbers

EMPLOYMENT

Darkhorse Analytics

Data Scientist

Edmonton, AB

July 2015 —

- Found trade opportunities representing a 10% increase in the dollar value of exports for Canadian province using a machine learning model.
- Wrote Python code that cleaned & process 120 GB of raw data.
- Developed a ML model for client that predicted most costly clients with 60% more accuracy than baseline (31% -> 50%).
- Lead small team to develop ML model for charity that could correctly identify 55% of major donors (baseline was 3%- major increase).

VARIOUS CLIENTS Edmonton, AB
Consultant August 2014 —

- Working with https://zipstory.com/ to implement a) a recommender system and b) a submission parser.
- Built latent semantic indexing & clustering library in Node.js for https://perspica.city/. Identifies top 20 keywords in 0.3s using a singular value decomposition, and clusters 200 documents using K-means in 0.7s.
- Lead a two person team to build an iOS app using React for a small engineering firm.
- Developed scraping programs for client enabling them to analyse millions of records in a central database.

University of Alberta Edmonton, AB
Instructor January 2017 —

• Taught 20 senior business undergraduates and 4 MBA students Monte Carlo simulation (OM 422/622).

University of Alberta Undergraduate Student Researcher Edmonton, AB

(780) 729 8784

April — August 2013

• Awarded a NSERC USRA grant to study applied stochastic analysis under Professor Christoph Frei.

EDUCATION

LONDON SCHOOL OF ECONOMICS

2014 — 2015

M. Sc. Econometrics & Mathematical Economics

University of Alberta

2010 — 2014

B. Sc. (Hons) Mathematics & Economics

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

- NIPS 2017: Defene Against Adversarial Attack: Built project for 2017 NIPS competition track that defends against adversarial perturbations. Placed 13 out of 39 submissions.
- www.BugDedupe.com: Lead small team to develop a SaaS app based around machine learning. 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 state of the art by 5%.
- Minor open source contributions to Tensorflow, Incanter.

SKILLS

- Languages: Python (strong), R (strong), SQL (strong), C++ (prior experience), Javascript (prior experience).
- Frameworks: Tensorflow, Scikit-Learn, Keras, PyTorch.
- Tools: Docker, Kubernetes, MySQL, SQL Server, git, UNIX command line utilities, PDB, GDB, virtualenv.