

Andrew Andrade

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Full CV: mrandrewandrade.com/cv

github.com/mrandrewandrade

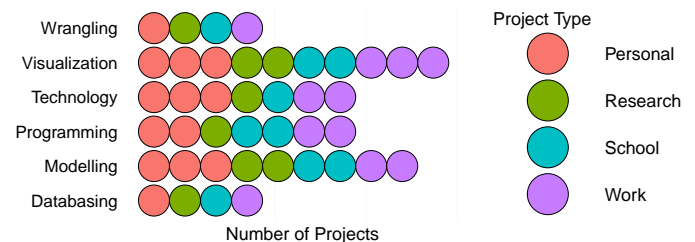
kaggle.com/mrandrewandrade

Executive Summary

- Love learning and innovating new methodologies by intersecting linear algebra, statistics, computer science & management sciences to applications such as machine learning and artificial intelligence
- Passion for open source and communicating ideas and concepts via docs/presentations/tutorials
- 4+ years of work experience applying analytics in a variety of industries and roles in different countries

Relevant Skills and Tools

- **Programming:** Python, R, C/C++, Matlab
- **Data Mining:** DataSciPy Stack, R, Weka
- **Visualization:** RShiny, D3, Tableau, Tibco
- **Database Mgmt:** SQL, Airpal, MongoDB
- **Distributed:** Hive, Spark, Hadoop, Pig
- **Development:** bash, zsh, tmux, vim, git



- **Favorite Packages:** Seaborn, ggplot2, xgboost, all of Scikit-learn but specially RandomizedSearchCV
- **Operations Research:** Forecasting, Optimization, Real Options Valuation, Predictive Causality
- **People:** [Public Speaking](#), [Project Leadership](#), Evangelizing Data Usage, Business Consulting

Selected Experience

PetroPredict Inc. | Tech. Co-founder

Calgary, Kitchener (Canada) & Singapore, May/14 - Present

- Temporarily dropped out of school to build and deploy a data storage, visualization and reporting tool to a petroleum company (reaching 6 figure revenue in less than a year before returning to school)
- Tasks included customer discovery, data-informed evangelizing, data munging, visualization, more data munging then building a regression and classification (intelligent agent) system for pipeline risk
- Formulated a novel data imputation strategy using a public pipeline database (increased MCC by 0.24)

Facebook Inc. | Manufacturing Engineering Intern

California, Oregon (USA), & China, Jan/14 - Apr/14

- Applied 6σ and data-informed methodologies to server and data center equipment manufacturing
- Used Hive and internal tools to visualize and understand hardware failures in the the data center
- Deployed a data logging tool for server hardware components company wide using Chef.
- Data analysis lead to designing a testing tool which saved Facebook \$1.4 million per factory

Relevant Projects

DataScienceGuide.github.io | Data Science and Big Data Analytics Course Notes

- Wrote and open sourced University of Waterloo's first Data Science and Big Data Course (MSCI 723)
- Ran hands on tutorials such as installing and running data science tools on servers, SQL, Hadoop, and multiple techniques for clustering, robust regression, classification, association, & many more topics!

AutoBike | Self Driving Autonomous Vehicle funded by MIT

- Designed, built and [published](#) a self driving bicycle and platform using monocular computer vision
- Implemented a multi-heuristic A^* algorithm and conducted platform and system scalability simulations

Selected Education

Candidate for BASc. in Mechatronics Engineering | University of Waterloo

2011 - 2016

- **Management Sciences Option:** Focus in Operations Research, Data Analytics and Supply Chain Mgmt.
- **Selected Awards:** Canadian Intern of the Year, 3rd Best Master's Paper in AI, Highest Class Rank: 1