Ryan Brady

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PROFILE

Statistics B.S. with experience in programming and statistical analysis. In-depth knowledge of logistic regression, linear regression, time series analysis, probability theory, geo-spatial analysis, and statistical learning techniques. Interested in applying advanced statistical methods to find solutions to intricate problems.

EDUCATION

University of California, Davis **June 2018**

Bachelor of Science in Statistics, with an emphasis in Data Science

WORK EXPERIENCE

Data Engineering Intern, Albertsons LLC **June 2018 – August 2018**

- Complete complex queries to find repeated columns in Teradata
- Monitor inputs into Teradata and Oracle databases to ensure unique rows
- Help Construct Charts and Visualizations with GGPlot to illustrate how inputs are leading to non-distinct rows in customer database

Lead Data Analyst Intern, Center for Student Affairs Assessment UC Davis **June 2017 – June 2018**

- Manage a cross-functional team of six undergraduates to produce Statistical Reports and construct software to give individual departments statistical insights on self-recorded data.
- Train employees in Tableau, SAS, R, and Statistical Methods.
- Implement Supervised Learning Techniques to better understand Student Body and identify students at highest risk of dropping out.
- Present the Vice Chancellor's Office with statistical insights on student issues and advise on ways to ensure all student's basic needs are met.

Data Science Intern, Data Science Initiative UC Davis **June 2017 – April 2018**

- Worked under Duncan Temple Lang and DSI Staff to validate and test a new R package, ReadPDF.
- Applied ReadPDF package to convert PDF to XML files.
- Used R's xml and xml2 libraries to study the XML structure of the converted PDF files.
- Studied a sample of research papers on animal-borne diseases to check critical information
- Incorporated machine learning techniques and Natural Language Processing to extract critical information within research papers.

PROJECTS

Classifying Crop Fields(https://rpbradystadavis.github.io/) **April 2018 – Present**

- Extracted satellite images from European Space Agency Sentinel-2 and stitched together images using gdal
- Constructed visualizations of Yolo County Crop Fields in GGPlot and Maplotlib
- Applied a KNN and Extremely Randomized Tree model to classify crop type in fields with 90% accuracy
- Worked with a partner and learned much more about geospatial analysis, specifically projections and object based predictions

2016 Election Analysis

- Led a group to analyze poverty and education rates in the United States against voter patterns in the presidential election.
- Employed Selenium, a program which allows the user to drive a browser through R, to web scrape dynamic web pages.
- Created a data frame through data munging to map United States counties, highlighting voter data in a multi-colored visualization for future statistical analysis.

TECHNICAL EXPERIENCE

Programming

- R Programming Language
- Python
- SQL
- Teradata
- Spark

Skills

- Machine Learning
- Multivariate Analysis
- Data Mining

Data Visualization

- GGPlot
- Tableau
- Matplotlib