Enrique Emanuel Rodriguez

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PROFILE SUMMARY

Apply Statistical, Machine Learning, and Visualization methods to discover interactions and behaviors in data in order to provide both insightful, innovative solutions and data products.

TECHNICAL SKILLS

Primary Languages:	Python, R
Knowledge of:	C, Scala, Spark
Scientific Packages & Libraries:	**R:** ggplot2, dplyr, Rmarkdown, Caret, H2o **Python**: numpy, pandas, sklearn, matplotlib, H2o
Machine Learning Algorithms:	K-NN, Decision Trees, Random Forest, Support Vector Machines, Gradient Boosted Machines, Generalized Linear Models.
Databases:	MySQL, PostgreSQL, SQLite
Tools:	Git/Github, Rstudio, Jupyter Notebooks
Other:	Linux (Ubuntu/Debian, Fedora/CentOS, Arch), Bash

EDUCATION

California State Univ. East Bay, Hayward, Ca *Sept 2014 - June 2016*
Master of Science, Statistics

- **Relevant Courses:** Applied Linear Regression, Statistical/Machine Learning, Time Series, ANOVA, Mathematical Statistics, Probability Theory, Stochastic Processes, Probabilistic Simulation, Data Visualization
- **Languages and Tools:** R, Python, Jupyter, Tableu
- Overall GPA: 3.8

California State Univ. Sacramento, Sacramento, Ca *Sept 2011 - Dec 2013*
Bachelor of Arts, Mathematics

- **Relevant Courses:** Real Analysis, Linear Algebra, Differential Equations
- **Languages and Tools:** R, Octave(Matlab)

PROJECTS AND PRESENTATIONS

Recent Projects

- *"United States Single Family Home Sales: A Time Series Analysis"* Individual project that analyzes single family home sales in the United State from 1975 to 1995. Implemented Seasonal $ARIMA$ to model and eventually forecast home sales.[link]
- *"Yet Another Airline Analysis: A Two Class GBM Implementation"*: A three person project in which an analysis of airline on-time performance was performed. Implemented KNN and Gradient Boosted Machines to predict airline delays. [link]

Presentations

- *"R Bootcamp: An Introduction to Statistical Computing in the R Programming Language"*: Presentation given to an audience of +40 students from different departments. Introduced R as a statistical tool for wrangling, exploring and modeling data. [link]
- *"Model Building and Validation with Caret"*: An introduction to model building with advanced methods such as, Tuning Parameter Grid Search, Resampling Methods and validation visualizations. [link]
- *"An Introduction to Mapreduce: KNN in MapReduce"*: An introduction to the map reduce paradigm and Hadoop computing environment. Implemented KNN using a Map-reduce paradigm.

EXPERIENCE

CSUEB Data Science Club Sept 2015- Jun 2016

Co-founder, Lead Content Creator and Web Developer *Hayward, CA*

- Worked with other student administrators to plan and help create content to be presented in bi-weekly meetings. Under the advisement of Dr. Suess.
- Prepared pretensions, articles and source code to be used by students. Topics included: Intro to R, Intro Mapreduce, Advanced Modeling in R.
- Used static website engine **Jekyll** and **Ruby on Rails** to create the CSU East Bay Data Science Club Website [csuebds.com]. Designed to host and advertise content provided by the club.
- Recruited professionals in the Data Science field to speak at meetings.

Tierra Mia Coffee Mar 2014 - Nov 2014

Store Manager *San Francisco, CA*

- Managed a team of 6 store employees in a very fast paced environment
- Analyzed daily store sales and activity to plan for both scheduling arrangements and store item stocks.
- Managed baking and bill payments for the San Francisco branch of the chain.
- Interviewed candidates and trained new employees