

Alonso Gutierrez

www.ajgm.me | +1 954 513 9734 | alonsogutierrez94@gmail.com | [Github](#) | [Linkedin](#) | Miami, FL US

Technical Skills

Languages: Python 2.7/3.6, R, Sqlite, NoSQL, Git, JavaScript, HTML/CSS/XML/JSON.

Frameworks/Libraries: Pandas, Numpy, Sklearn, Matplotlib, Zipline, d3.js, dimple.js.

Other: Rstudio, Github, Jupyter Notebook, Quantopian, MongoDB.

Project Experience

Identify Fraud from Enron Emails - [Link](#)

- A study of the Enron scandal based on the companies email data dumps publicize after the scandal.
- Use of natural language toolkits (nltk), along with tf-idf technique for vocabulary preprocessing.
- Use of ML classifier algorithms for machine learning, along with:
 - Primary Component Analysis (PCA) for features' selection in classifier training.
 - Data Scaling.
 - Stratified data shuffling to better control train/test dataset splits as a classifier bias buffer.
 - GridSearch for algorithm's parameters fine-tuning.
 - Score-based model-selection for testing of different ML algorithms.

Visualizing Gene Expression - [Link](#)

- Using genomic microarray-testing in order to identify genetic markers in the distinction between two common subtypes of Leukemia.
- Use of Machine Learning techniques such as PCA analysis and Data Scaling for the extraction of information from raw data.
- Use of JavaScript based visualization library, d3.js, for illustrations of insights found in the analysis.

Wrangle OpenStreetMap Data - [Link](#)

- Cleaning and processing of OSM data into MySql Database.
- Use of data auditing techniques to uncover mistakes in the data, such as XML tree parsing and Regex analysis.

Data Analysis with R and Rstudio - [Link](#)

- Auditing and cleaning of bank loan data for exploratory purposes in loan fraud.
- Use of R and Rstudio for descriptive visualizations and simple statistics of this data's features.

Investigating the Titanic Disaster - [Link](#)

- Using Jupyter Notebooks to investigate the Titanic Disaster. The data is used to find some of the common characteristics amongst survivors.
- Pandas and Numpy modules were employed to process the data.
- Matplotlib and Seaborn modules were employed to illustrate information extracted.

Stock Value Predictions with Machine Learning (current)

- Using HTML-based pandas API requests to gather stock value data.
- Use similar Machine Learning Techniques to the "Identity Fraud from Enron Emails" to find underlying correlational relations between securities in different markets.

Work Experience

Technician at Proendoscopy, LLC:

Sunrise FL, U.S. | Dec. 2015 - Current

- Surgery equipment technician; my work varies from maintenance and repair of different sorts of surgery scopes to digital and analog OR systems.
- Also, some of my responsibilities

Education

Data Analyst Nanodegree at Udacity

Contact udacity - [Link](#)

Interest

- Machine Learning/Artificial Intelligence
- Data Science
- Securities and Futures Trading
- Blockchain Technology