Alonso Gutierrez

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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

Wrangle OpenStreetMap Data - March 2017 - Link
- Cleaning and processing of OSM data with Python 2.7's xml.etree, sqlite3 and regex modules to uncover mistakes in the data.
- Deploying custom terminal interface to ease transition of top elements in data from XML format to an sqlite3 protocol database.

Identify Fraud from Enron Emails - May 2017 - Link
- Interpreting of the Enron scandal based on the companies' email data dumps publicized after the commercial-titan's fall.
- Utilizing Python 2.7's natural language toolkit (nltk) module, along with tf-idf technique for vocabulary preprocessing.
- Enhanced search ML classifier algorithms for machine learning, along with the primary component analysis, stratified data shuffling, grid-searching and score-based model-selection.

Visualizing Gene Expression - August 2017 - Link
- Used genomic microarray-testing in order to identify genetic markers in the distinction between two common subtypes of leukemia.
- Applied Machine Learning techniques, such as PCA analysis and Data Scaling, for the extraction of information from raw data.
- Used JavaScript-based visualization library, d3.js, for the illustrations of insights found in the 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.

Work Experience

Technician   Proendoscopy, LLC.*, Sunrise FL, U.S. | December 2015 – present*
- Increase repair outputs by 50% on high level equipment repairs.
- Maintain and repair all surgery equipment; from different sorts of surgery scopes to digital and analog OR systems.
- *Manage a team of four technicians.*

Education

Data Analyst Nanodegree at Udacity   *Online Certification | June 2017 – December 2017*
Degree in Biomedical Engineering at FIU   *Bachelor's in Science | August 2012 – ongoing*