Fernando Maletski

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Data Scientist with 2 years of experience designing and applying predictive statistical and machine learning models for trading.

TECHNICAL SKILLS

- Languages: Python, R, SQL, JavaScript
- Frameworks / Libraries: pandas, numpy, matplotlib, scikit-learn, Jupyter, Rstudio, SQLite, PostgreSQL, D3.js, Dimple.js
- Concepts: Extract Transform Load (ETL), Exploratory Data Analysis (EDA), Data Visualization, Machine Learning, Version Control
- Platforms: Linux (Ubuntu, Red Hat, SUSE and Arch), Windows and macOS for development, Git / GitHub for version control
- Other: Experienced in stock trading using statistical models (5 years) and project management (4 years), bilingual Brazilian Portuguese and English

DATA SCIENCE PROJECTS

ENRON Person of Interest Identifier | Python | EDA | Machine Learning
github.com/fmaletski/enron-poi-identifier

- Built a machine learning model (Voting Classifier – Decision Tree, SVM and KNeighbors), to identify persons of interest using the ENRON financial dataset with 88.70 % accuracy and a recall score of 0.670
- Explored many different algorithms, parameters and feature combinations using cross-validation to ensure the best possible performance and bias-variance tradeoff

NYC Taxi Trip Interactive Choropleth | D3.js | Data Visualization | Python | ETL
github.com/fmaletski/nyc-taxi-map

- Created an interactive data visualization using a NYC Taxi & Limousine trip dataset to help identify patterns, filtering the data by various parameters, such as time of day and day of the week interactively
- Converted the dataset from trip based to location statistics and merged it with GeoJSON data (converted from the TLC supplied Shapefile)

Exploration of Red Wine Composition | R | EDA | Machine Learning
github.com/fmaletski/eda-redwines

- Explored red wine chemical composition using univariate and multivariate approaches to identify relationships
- Created a machine learning model (SVM Classifier) that classifies red wines into above and below average quality using its chemical composition with an accuracy of 81.95 %

PROFESSIONAL EXPERIENCE

Private Investment Club, Curitiba, PR - Brazil
Data Scientist - Investment Manager, September 2015 – June 2017

- Designed and maintained statistical and machine learning models for real-time analysis of stock price fluctuations
- Managed market neutral stock portfolios using said models (pair trading) ~3.5% in profits per month

MKI Metalúrgica, Curitiba, PR - Brazil
CEO – Founder, October 2012 – April 2015

- Managed a team of ~120 employees on construction projects all around the country (fabrication and assembly of heavy industrial equipment)
- Coordinated company resources (people, cranes, and machinery) to finish the projects as efficiently as possible
- Mediated project management meetings with clients to fulfill deadlines and budgets

Elgam Metalúrgica, Campo Largo, PR – Brazil
Investment Manager, December 2009 – October 2011

- Managed an investment portfolio to maximize profits (stock, options, bonds) ~2.5% in profits per month
- Created statistical models for trend prediction

EDUCATION

Bachelor of Science in Mechanical Engineering
Universidade Positivo, Curitiba, PR, Brazil – December 2011

Data Analyst Nanodegree
Udacity - Nanodegree – October 2017