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SKILLS

Python/R/MATLAB/SQL

RStudio/Jupyter Notebook

Git/Github

Excel/VBA

Machine Learning

Feature Engineering

Data Visualization

Presentation

LANGUAGES

English
Native or Bilingual Proficiency

French
Native or Bilingual Proficiency

Spanish
Native or Bilingual Proficiency

INTERESTS

Aerospace

Robotics

Cosmology

Fitness

Cycling

Soccer

Tennis

Financial Markets

Leland Murrin

Data science graduate with an engineering background focused on financial technology, markets, and business intelligence. Inquisitive self-starter with a meticulous attention to data integrity and a keen curiosity for quantitative methods. Proficient in optimizing machine learning models, and presenting clear, insightful visualizations.

EXPERIENCE

Data Science Fellow

NYC Data Science Academy

09/2022 - 06/2024

New York, New York

- Served as a lead on a [project commissioned by an accounting firm](#) to propose data science automation methods for innovating the due diligence acquisition reporting of small or mid-sized corporations.
- [Analyzed the pandemic effects on Ames, Iowa housing](#) through sensitivity analysis forecasts and pre vs. post pandemic **A/B testing** in Python.
- Performed data research using government, financial, media and crowd-sourced websites for the latest housing, business, and tax information.
- Created Python **API** wrapper functions to request lat/long and drive time data in **JSON** format.
- Created, published, and presented an interactive, [dynamic RShiny dashboard application](#) to forecast NY State Corporate Tax Credits across multiple datasets.
- Successfully pre-processed sparse datasets after thorough exploratory data analysis. Examples include anonymizing private datasets, standardizing, imputing, windowing, and automating validation of addresses using reverse geocoding lookups.
- Successfully reduced features using stepwise feature reduction and unsupervised machine learning methods, which included **PCA** and **KMeans** clustering.
- [Optimized predictive models](#) using hyper-parametrization, cross-validation, and regularization. Time series analysis was done using seasonal decomposition and **ARIMA**.
- Presented visualizations to a CPA executive using treemaps, heatmaps, and dual-axis plots to justify stationarity and peak-and-trough analysis conclusions. Constructed local area maps using geospatial plots with annotations, multiple legends, and insets.

Operations Intern

Opera Solutions

05/2016 - 08/2016

Jersey City, New Jersey

A multinational SaaS company serving federal agencies and multiple Fortune 100 companies.

- Integrated a company-wide OKR performance tracking system with cloud-based CRM software (Salesforce) allowing for automated data collection and visual tracking of productivity
- Analyzed the company's descriptive internal attrition statistics for presentation to potential private equity investors
- Consolidated monthly utilization reporting from three different departments through a dynamic formula based Excel master spreadsheet

Mechanical Engineering Intern

Crane Aerospace and Electronics

06/2014 - 08/2014

Lynnwood, Washington

A technology and equipment provider that produces specifically engineered products for clients in the commercial aerospace, defense and space sectors.

- Conducted a complex failure analysis for an aeronautical Transformer Rectifier Unit using decision tree methodologies to improve future designs with final report to Director of Engineering
- Drafted 200+ page engineering reports on an aeronautical Transformer Rectifier Unit (TRU) to be presented to a federal agency

EDUCATION

Bachelor of Engineering in Mechanical Engineering

McGill University

10/2020

Montreal, Quebec

- Capstone Project: Structural Design of a Nano-Satellite with Finite Element Analysis Optimization
- Other Projects: Design of rotor deployment mechanism for eVTOL prototype of the Terrafugia TF-X