

Antonio Hila

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Data Scientist with experience in data acquisition and data modeling, data cleaning, statistical analysis and machine learning. Leveraging background in Project Management, I bring strong analytical, organizational, collaboration and communication skills in a diverse set of fields that can help improve any Data Science or Data Analytics company.

TECHNICAL SKILLS

Python | SQL | SQLite3 | PostgreSQL | Jupyter | Tableau | scikit-learn | Pandas | Statsmodels | APIs | AWS s3 | AWS ec2

TECHNICAL PROJECTS

NBA Player Classification and Comparison - [Github](#)

Analyzed data based on 670,000+ shots by 2,000 players over a time period of 20 years to classify their positions

- Obtained data through the NBA api and the basketball reference site to analyze and compare players
- Plotted shot charts using Matplotlib to compare players and find similarities and differences between positions
- Trained the model using player statistics to predict positions and obtained an 84% accuracy
- Used similarity matrix with euclidean distance to compare players, identifying similar offensive styles

Analyzing Water Well Data in Tanzania - [GitHub](#) | [Blog](#)

Analyze the status of different wells in Tanzania to find similarities in the problems with damaged wells

- Cleaned and prepared data for 55,000+ data points to gain a wider sample size of information for analysis
- Created visuals to understand the data including a Folium graph depicting the wells by location in Tanzania
- Modeled data using Random Forest and XGBoost and obtained an 81% accuracy in determining well functionality

Anime Recommendation System - [Github](#)

Gathered 75,000+ reviews for 1,000+ television shows (ie: anime) to create a recommendation system for other viewings

- Scraped data from myanimelist.net to gather data points and analyzed reviews by scores for increased reliability
- Analyzed NLP data to find similar sentimentality (ie: people's opinions and feelings) among user reviews
- Created a model using surprise to generate anime recommendations based on user reviews

NBA Team Analysis - [Github](#)

Compiled data on 30 teams throughout 8+ seasons to analyze and find the most important attributes of winning games

- Used basic box score statistics to analyze and predict wins for each team
- Created interactions to minimize complexity in the features
- Used a Linear regression to model the data to predict wins in each season

PROFESSIONAL EXPERIENCE

Freelance Data Analysis, Fiverr 02/2021-Present

- Provide Data Cleaning, Data Mining and general analysis through visualizations

Project Manager, **Armstrong Roofing**, Staten Island, NY 01/2019 - 12/2020

- Coordinated work between multiple trades and companies to complete jobs on time
- Handled finances for multiple jobs ranging from \$5 - \$10MM budgets to organize expenses and ensure profitability

EDUCATION

Flatiron School, New York, NY 03/2020 - 07/2020

Immersive Data Science Bootcamp program (Python, SQL, Pandas, Tableau, Machine Learning)

City College of New York, NY, NY 07/2016

Bachelors of Science (B.S.) | Major: Mechanical Engineering