NADER ESMAEL

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SKILLS

Python (Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn, Tensorflow), PostgreSQL, PySpark (DataBricks), R, Tableau, Cloud-Based Services (AWS, BigQuery - Google Analytics), Statistical Modeling, Machine Learning (Logistic Regression, Classification, Neural Networks, NLP, Decision Trees/Random Forests, XGBoost), Microsoft Office/Excel

PROJECTS

Pitch Classification and Baseball | Solo Concept Project
- Evaluated umpire's efficiency in officiating games by predicting pitch call's accuracy, using a Random Forest classifier, player's pitch history, and game mechanics
- Utilized pybaseball (third-party Pythonic library) to collect five seasons (4 million rows) of pitch data and organized it into a workable dataframe and feature engineered pitchers by determining a pitcher's repertoire percentage usage
- Determined the importance of speed, rotations, pitch start and end locations, and pitch type in predicting an umpire's pitch call

Depression or Shower Thoughts: that is the question | Solo Concept Project
- Extracted, transformed, and loaded (ETL) 20,000 Reddit posts using Pushift API and designed an NLP-based Random Forest classifier that differentiates if a post is a random thought or exhibits signs of depression
- Investigated r/depression and r/showerthoughts subreddits to understand the connection between language and behavior, focusing on its significance in detecting signs of depression
- Utilized the model's coefficient to determine commonly ignored keywords that leads to the misclassification of depression

It's Kiva Time | Team-Based Project
- Collaborated with a team to predict funding trends and churns on microloans by evaluating factors such as loan amount, country, borrower's gender, etc. using a multitude of models (GLM Poisson, Random Forest, Regression, etc.)
- Individually responsible for managing the Github repository, creating EDA and data visualizations, and executing high-processing models

WORK EXPERIENCE

Harvey & Company LLC   Newport Beach, CA
M & A Research Analyst   *March 2019 - January 2020*
- Increased top-line revenue to 400% by developing strategic search queries and research tactics for over 10 platforms
- Improved research efficiency for interns and analysts to determine proper fits by examining company financials, services, size/employee count and aligning the numbers to client portfolios
- Created marketing materials and finance reports for bi-weekly meetings with executives and management teams to go over research efforts and other necessary information regarding possible mergers to further close the deal process

Cal Poly Pomona Associated Student, Inc.   Pomona, CA
Conference & Events Student Assistant   *August 2017 – August 2018*
- Supervised and trained six other team members including safety training, operation management, and time allocation
- Supported management through identifying process improvements and position the business for growth potential

Filipino Basketball League (FBL)   Moreno Valley, CA
Statistician   *June 2014 - June 2018*
- Achieved 20% increase in profits through fundraisers, promotions, food sales, and maintaining strong client relations to teams and sponsors all over Moreno Valley
- Managed, recorded and visualized real-time basketball metrics to effectively present same-day tournament statistics accessible for players and fans

EDUCATION

General Assembly   Los Angeles, CA
Data Science Immersive   *September 2020 - December 2020*

California State Polytechnic, University (Pomona)   Pomona, CA
Applied Mathematics & Statistics   *September 2014 - June 2018*
- Datafest 2018 (Data Dudes) - High Ranking Participant
- President & Founder of Sportsfest Club (2016-17)
- Athletics Chair of Barkada (2016-17)
- Internal Affairs Director of PASK (2015-2016)