

NADER ESMAEL

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SKILLS

Python (Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn, Tensorflow), PostgreSQL, PySpark (DataBricks), R, Tableau, Cloud-Based Environments (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

- Designed a Random Forest model to determine umpire accuracy in determining a strike or ball call in order to evaluate an umpire's efficiency in officiating a game based on pitch mechanics and features
- Used pybaseball (third-party Pythonic library) to collect data and wrote a python script to clean and transform unstructured pitch data into a workable dataframe
- Organized 4 million rows of pitch data (5 seasons) with 90 columns of features and determined that speed, rotation, location, and pitch type affect the call of the pitch

Depression or Shower Thoughts: that is the question | Solo Concept Project

- Extracted 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
- Utilized r/depression and r/showerthoughts subreddits to study language and behavior, discovering overlap and words of importance to help understand misclassifications 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.)
- Managed the github repository, created the EDA and data visualizations, and ran high-memory intensive models to assist teammates lacking hardware and processing power

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 queries and research tactics for over 10 platforms
- Improved research efficiency for interns and analysts to determine "proper fits" - companies whose services cooperate and collaborate effectively with each other and expand client business 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

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 and recorded live basketball stats to efficiently run same-day tournaments and create data visualizations and presentations for audience and players to view and understand

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)