

## NADER ESMAEL

ncesmael@gmail.com • 951-288-8825 • <https://www.linkedin.com/in/ncesmael> •  
<https://github.com/laternader> • Moreno Valley, CA

### TECHNICAL SKILLS

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Excel, SQL, Python (Packages: Numpy, Pandas, Scikit-Learn, Matplotlib, Seaborn), DataBricks

### DATA SCIENCE EXPERIENCE

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

**Data Scientist** | *Moreno Valley* | **2 weeks in October 2020**

- Create a model that can classify reddit posts between “shower thoughts” and “depression” in order to understand diction and vocabulary
- Used grid search to find optimal hyper parameters for several pipelines – the search iterated through logistic regression, random forest, and Naïve Bayes models using either TFID or CountVectorized word features
- Achieved an accuracy of 0.91 for a model that can detect if someone is suffering from depression and mental health issues through their social media posts

#### **You’re moving to Ames?!** | Solo Concept Project

**Data Scientist** | *Moreno Valley* | **2 weeks October 2020**

- Predict the price of a house based on features such as location, number of rooms, square foot area, etc.
- Used Linear Regression and other models on data that was cleaned and remapped, feature engineered, and applied logarithmic functions to find features that played a larger impact
- Achieved a low error ~\$24k and determined that some features such as a fireplace was a luxury for a home or not

#### **Pitch Classification and Baseball** | Solo Concept Project

**Data Scientist** | *Moreno Valley* | **3 weeks November 2020**

- Used RandomForest and other classification models to look at around 4 million rows of game log data to classify whether or not a pitch was a strike, ball, or hit into play
- Create a slide deck to introduce the sport of baseball to audience members unaware of the sport and bring about awareness
- Achieved an accuracy of 65% using only the release point, ending point, speed, and pitch type without incorporating other factors such as pitcher, batter, fielders, etc.

### WORK EXPERIENCE

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#### **Harvey & Company LLC**

*M & A Research Analyst*

**Newport Beach, CA**

*March 2019 - January 2020*

- Managed quantitative and qualitative research for 10 acquisition and marketing strategies across multiple industry sectors
- Worked with 7 strategic buyers and 2 private equity groups to increase top line revenue by up to 400% through search queries for add-on & platform acquisitions
- Implemented a standard for research efforts and created research templates for research analysts, research interns, and outsource researchers to utilize in future strategies
- Utilized Excel to analyze company data, finances, and success to determine proper fits for clients to help grow businesses and/or portfolios, as well as create marketing materials for bi-weekly meetings with executives and management teams

**Cal Poly Pomona Associated Student, Inc.****Pomona, CA***Conference & Events Student Assistant**August 2017 – August 2018*

- Provided set-ups for meetings and conferences to meet the necessities of the customer
- Responsible for supervision and training of six other team members including safety training, operation management, and time allocation

**Filipino Basketball League (FBL)****Moreno Valley, CA***Statistician**June 2014 - June 2018*

- Collected live data and displayed in-game statistics in a timely manner
- Improved data collection processes and fundraising tactics to increase player and audience retention
- Achieved 20% increase in profits and established a well-renowned league all over Moreno Valley and other parts of the Inland Empire due to excellent client services

**EDUCATION**

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

12-week training program providing a deep dive into the world of data science, focusing on improving skills to analyze, predict, and convey data-driven facts from large datasets.

**California State Polytechnic, University (Pomona)****Pomona, CA***Applied Mathematics & Statistics**September 2014 - June 2018*

Dean's List: Fall 2014, Winter 2014, Spring 2018

Datafest 2018 (Data Dudes) - High Ranking Participant, President and Founder of Sportsfest Club in 2016-2017, Athletics Chair of Barkada in 2016-2017, Internal Affairs Director of PASK in 2015-2016