

Jacob Der



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Profile

I am a budding data scientist with experience using popular data science toolkits like Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, and PyTorch.

Work Experience

Data Analyst/Engineer

Verified Nutrition

07/2020 – 01/2021 | Los Angeles

- Designed, implemented, and maintained data pipelines with Python, Snowflake
 - Tested REST API requests with Postman
 - ETL with Python
 - Warehousing with Snowflake
- Performed exploratory analysis and regression on business data
- Did customer segmentation and reported on various groups

Teaching Assistant

University of Southern California

08/2018 – 05/2020 | Los Angeles

Certificates

Python for Data Science and Machine Learning Bootcamp

Instructor - Jose Portilla

Skills

Programming and Software

- Python (Pandas, NumPy), Jupyter notebook, SQL
- Versioning with Git and Github
- Visualization with Tableau, Matplotlib, Seaborn

Machine Learning

- Regression, classification, clustering with Scikit-learn
- Deep learning with PyTorch and Keras/Tensorflow

Mathematics

Linear algebra, probability and statistics, calculus

Projects

Full Portfolio on my Website [🔗](#)

Fake News Detection [🔗](#)

- Trained naive Bayes classifier to detect fake news, according to the headline
- Preprocessed data using a library I developed
 - Cleaned and combined text datasets
 - Put data into a bag-of-words representation

Student Performance Prediction [🔗](#)

- Used Scikit-learn to predict student performances on exams
- Used chi-squared testing for feature selection
 - Created visualizations with Seaborn
 - Trained random forest model for final predictions

Image Classifier [🔗](#)

Used PyTorch to construct a convolutional neural network for image classification

Education

MA in Mathematics

University of Southern California

08/2018 – 05/2020 | Los Angeles

BA in Mathematics

San Francisco State University

08/2014 – 05/2018 | San Francisco

Interests

Rock climbing | Philosophy | Cooking | Jazz

Fiction | Old School Runescape