

Jacob Der



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Profile

I like to think of myself as a budding data scientist with the ability to ask the right questions and pick correct solutions due to my robust background in mathematics.

Work Experience

Verified Nutrition

Data Analyst/Engineer

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

Certificates

Python for Data Science and Machine Learning Bootcamp

Instructor – Jose Portilla

Skills

Programming

- Python, Jupyter notebook, SQL
- Versioning with Git and Github

Machine Learning

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

Mathematics

Linear algebra, probability and statistics, calculus, graph theory

Projects

Heart Failure Model

Exploratory Data Analysis and Predictive Modeling

Used sklearn to classify patients at risk for deadly heart failure

- Used logistic regression for feature selection
- Trained gradient boosting model for final predictions

Bag-of-words Implementer

Data Cleaning and Preprocessing

- Developed a Python library for preprocessing text data—cleaning and bag-of-words transform
- Published the library to PyPi

Image Classifier

Deep Learning

- Used PyTorch to create convolutional neural network for image classification
- Curated a balanced dataset for testing

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 | Reading
Old School Runescape