CONNOR SANDERFORD

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TECHNICAL SKILLS

Python | SQL | SQLAlchemy | PostgreSQL | MATLAB | Docker | Tensorflow | Flask | scikit-learn

PROFESSIONAL EXPERIENCE

Arizona State University December 2020 – Present
Undergraduate Research Assistant Tempe, AZ

- Altering a fork of brainrender, a neuroanatomical visualization library, for compatibility with other file formats.
- Developing a data decomposition procedure for spatial gene expression data in mice.

Lambda School Spring 2020
Team Lead Remote

- Led & mentored a team of 10 data science students through project modules & build weeks.
- Evaluated over 200 GitHub project submissions to meet proper criteria.
- Provided support & feedback to instructors and met with individual team members daily via Zoom.

Concept Development Corporation November 2017 - February 2020
Production Staff Fountain Hills, AZ

- Processed, tested, and quality-assured various products, mostly laser boresighters.
- Maintained standards of precision and output for the production line.

EDUCATION

Arizona State University, Tempe Expected May 2023
Bachelor of Engineering, Biomedical Engineering GPA 4.0

Lambda School July 2019 - October 2020
Data Science
Comprehensive data science program, including Python, machine learning, data engineering, computer science, web frameworks, API development, Amazon Web Services, statistics, and deep learning.

University of Washington, Seattle August 2014 - June 2016
Engineering Coursework
Completed 90 credits of coursework in multivariable calculus, ordinary differential equations and linear algebra, as well as undergraduate coursework in physics, biology and chemistry.

SELECTED PROJECTS

YelpSense March 2020 - July 2020
A web app serving insights about Yelp businesses through multiple avenues, including NLP, image recognition, and collaborative filtering. [use app]
Flask | Docker | lightFM | LIME

- Developed a recommender model utilizing lightFM. [view code]
- Responsible for predicting and displaying the sentiment value and predicted class of any given review, while presenting model interpretability scores with LIME.
- Built a Flask API and deployed to AWS Elastic Beanstalk using Docker. [view code]

Animal Spirits October 2019
An app analyzing the sentiment of a collection of bitcoin tweets. [use app]
Streamlit | Altair | spaCy | scikit-learn

- Performed sentiment analysis using spaCy and scikit-learn on a collection of bitcoin tweets. [view code]
- Presented relevant features legible for predictions on individual tweets using Shapley values.
- Developed a dashboard with Streamlit using Altair to display the results. [view code]