

JAMES NUCI

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EDUCATION

University of California, Santa Barbara
Statistics and Data Science B.S.

Sept 2019-June 2023

RELEVANT COURSEWORK

Python for Data Science and Machine Learning Bootcamp

Comprehensive course introducing data visualization and machine learning techniques. Gives exposure to Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, and Keras libraries

TECHNICAL SKILLS

Languages	Python, R, JavaScript, SQL, HTML5, CSS
Technologies	PySpark, Git, Virtual Machine, Docker, React.js
Databases	PostgreSQL, SQLAlchemy, Google BigQuery, pgAdmin 4

PROJECTS

949 Comms

September 2023

- Designed end-to-end ETL pipeline to fetch and clean YouTube comment data in real time.
- Utilized PostgreSQL, PgAdmin 4, and Python (Pyscopg2) for testing as well as efficient data storage and retrieval capabilities.
- Implemented data transformation routine to clean, preprocess, and enrich data to be used for downstream analytics and model development.

Sorting Algorithm Visualizer

March 2023

- Collaborated with a classmate to produce an interactive website that visualizes common sorting algorithms in real time.
- Utilized JavaScript to develop and animate common sorting algorithms.
- Included React component in JSX file to produce various sized bars and sorting commands.

Music Genre Classification

June 2023

- Group aimed to improve upon existing methods for lyric-based music genre classification.
- Employed the NLTK, spaCy, and Tensorflow libraries to develop and test bi-LSTM neural network architectures.
- Dataset consisted of over 300,000 songs.

CRUD API

December 2022

- Built responsive API through the Python fastAPI framework.
- Utilized PostgreSQL as the relational database backend, managed through pgAdmin 4.
- Conducted testing and debugging of API features via the Postman API platform.

ACTIVITIES & INTERESTS

Activities:	Climbing Team, Data Science Club, Campus Learning Assistance Services
Interests:	Anime/Manga (Jujutsu Kaisen, One Piece), Fitness, Podcasts, Cooking