

# DENIS COHEN

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Data and Operations Analyst with a background in Economics/Statistics and financial and lending protocol. Partnered with highly motivated teams to fund 120+ residential loans monthly totaling approx. \$70million+ in loan volume while performing ad hoc data analyses of production. Prepared to produce insight with the use of data to drive strategic decisions.

## TECHNICAL SKILLS

**Programming Languages:** Python (Libraries: Pandas, NumPy, SciPy, TensorFlow, Sklearn, SQLAlchemy, and Flask), R, VBA

**Spreadsheets:** Excel

**Databases:** SQL, MySQL, PostgreSQL, MongoDB

**Web:** HTML/CSS, Bootstrap, JavaScript

**Data Visualization Tools:** Tableau, Matplotlib, Seaborn, Plot.ly, D3

## PROJECTS

**GDP By Industry Visualization** | [https://github.com/deniscohen43/GDP\\_Industry\\_Visualization](https://github.com/deniscohen43/GDP_Industry_Visualization)

- Retrieved dataset directly from the Bureau of Economic Analysis and cleaned data via Python (Pandas) and Excel
- Imported dataset into SQLite database
- Used SQLAlchemy to build database connection with Flask App and used Python/SQL to build the JSONs for API and data extraction
- Created functions within JS file to pull data from the Flask App JSONs and create charts based on selected items from homepage
- Used JS script file referenced in HTML to build dynamic charts of the specific options chosen by user to present the data

**Job Recommender System using NLP** | [https://github.com/vgangaprasad/ML\\_Skills\\_Match](https://github.com/vgangaprasad/ML_Skills_Match)

- Used NLP techniques to design an application using Python to match the keywords from user input resume to match with the keywords in the corpus of job postings. The application was based on the ranking results of TF-IDF.
- Built Flask App to serve our application and created a user interface with HTML to allow the user to enter their resume as text. The application is then able to run the resume through the NLP model to create the match.
- Used AWS to host the server and datasets in S3 buckets. We are able to launch the application in the cloud through AWS.

**Analysis of Song Popularity: What Makes a Song Popular?** | [https://github.com/deniscohen43/Spotify\\_Analysis](https://github.com/deniscohen43/Spotify_Analysis)

- Analyze and clean data set of 230k songs from Spotify data set
- Cleaned data with Python (Pandas)
- Define goals of analysis and hypotheses
- Design and run statistical models and tests on a data set
- Used Python, Pandas, Matplotlib, Seaborn

## EXPERIENCE

**Senior Banking Operations Analyst**

**JVM Lending**

Refined analytical skills and designed new methods to increase productivity and revenue. Performed data analysis to solve production questions. Established relationship-building skills and through working

2015 - Present

Walnut Creek, CA

collaboratively with multiple close-knit teams. Multitasked on detailed-oriented work which resulted in rapid progression.

***Key Accomplishments:***

- Facilitated the highest loan volume in the company's history: improving efficiency throughout the pipeline and creating ad hoc analyses to continue growth
- Nominated as Employee of the Month: recognized for problem-solving abilities, leadership skills and dedication to projects

**EDUCATION**

**Certification in Data Analysis and Visualization**

A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.

**Bachelor of Arts in Economics (Minor: Statistics): University of California, Davis**