

# Chelsea Ramos

## Data Scientist

Data scientist with a product/electrical engineering background and 2.5+ years of experience in programming and data analysis. Projects include sentiment classification, deploying a model to a web app. Passionate about machine learning and eager to gain and use data-driven insights, present deliverables, and collaborate effectively in-person and remotely.

## Contact

### Address

San Francisco, CA

### Phone



### E-mail

[chelseanbr@gmail.com](mailto:chelseanbr@gmail.com)

### LinkedIn

[linkedin.com/in/chelseanbr](https://www.linkedin.com/in/chelseanbr)

### GitHub

[github.com/chelseanbr](https://github.com/chelseanbr)

### Portfolio

[chelseanbr.com](https://chelseanbr.com)

## Skills

Python (Libraries: Pandas, NumPy, SciPy, Scikit-Learn, TensorFlow/Keras, and more)

Jupyter Notebook/Lab

Linux/Unix

Git/GitHub

Machine Learning/Modeling

Data Collection and Wrangling

Exploratory Data Analysis (EDA)

Natural Language Processing (NLP)

AWS (EC2, S3)

Docker

Statistical Analysis

Technical Communication

Spark

SQL (MySQL, PostgreSQL)

## Data Science Projects

### Between the Lines of Tripadvisor Hotel Reviews

[github.com/chelseanbr/between-the-lines-hotels](https://github.com/chelseanbr/between-the-lines-hotels)

- Managed individual project through agile scrum meetings, scraped 1.2 million Tripadvisor hotel reviews in 4 days to build Airbnb review sentiment classifier
- Built and evaluated models on confusion matrix, improved accuracy from <70% to 88%; deployed long short-term memory neural network to web app

**Technologies:** AWS EC2, Docker, Flask, Python and libraries: TensorFlow/Keras, NLTK, Scikit-Learn, BeautifulSoup4, Pandas, NumPy, Matplotlib, Seaborn

### What's In My Makeup Bag?

[github.com/chelseanbr/Whats-In-My-Makeup-Bag](https://github.com/chelseanbr/Whats-In-My-Makeup-Bag)

- Cleaned data, performed EDA on >100,000 harmful cosmetic product records
- Conducted hypothesis testing using Welch's t-test and found statistically significant differences across similar companies in their ratios of discontinued or reformulated products to harmful products reported

## Experience

2017-09 -  
2020-03

### Product Engineer (New Product Introduction)

*Xilinx, San Jose, CA*

- Implemented Python scripts to optimize engineering group's data summarization process, reducing manual work from two days to only minutes and increasing available team capacity to understand and take action on data
- Arranged daily data collection for Design of Experiments (DOE) and semiconductor testing with clear written/verbal instructions to technicians in order to obtain quality data for analysis by the next day
- Delivered new products on time to internal/external customers by quickly understanding needs & data, adapting to improve manufacturing/testing processes, and achieving high yield increased from <50% to >90%

## Education

2020-03 -  
2020-06

### Data Science Immersive

*Galvanize - San Francisco, CA*

- Collaborated via Zoom, Slack, and Git, had agile scrum meetings, and presented EDA and modeling deliverables

2013-09 -  
2017-06

### Bachelor of Science: Electrical Engineering

*University of Washington - Seattle, WA*