Chelsea Ramos

Data Scientist

Data scientist with an electrical/product engineering background and 2+ years of experience in programming and data analysis. Projects include a minimum viable product for Airbnb review sentiment classification. Passionate about machine learning and eager to gain and use data-driven insights, present deliverables, and collaborate effectively either in-person or remotely.

Contact

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E-mail
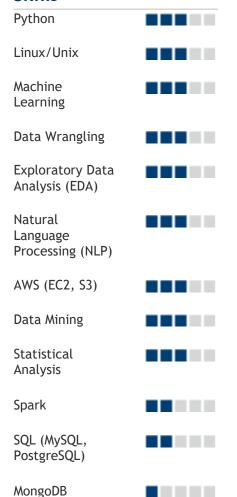chelseanbr@gmail.com

LinkedIn
linkedin.com/in/chelseanbr

GitHub
github.com/chelseanbr

Portfolio
chelseanbr.com

Skills

Skill	Level
Python	■■■□□
Linux/Unix	■■■□□
Machine Learning	■■■□□
Data Wrangling	■■■□□
Exploratory Data Analysis (EDA)	■■■□□
Natural Language Processing (NLP)	■■■□□
AWS (EC2, S3)	■■■□□
Data Mining	■■■□□
Statistical Analysis	■■■□□
Spark	■■□□□
SQL (MySQL, PostgreSQL)	■■□□□
MongoDB	■□□□□

Data Science Projects

Between the Lines of Tripadvisor Hotel Reviews
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, NLTK, Scikit-Learn, BeautifulSoup4, Pandas, NumPy, Matplotlib, Seaborn

What's In My Makeup Bag?
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
- Delivered new products on time to internal/external customers by quickly understanding needs, 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 through Zoom, Slack, and Git in weekly case studies to present EDA and modeling deliverables within 1-2 days
- Engaged in daily pair programming on functional and object-oriented programming assignments for hands-on learning of data science fundamentals

2013-09 - 2017-06

Bachelor of Science: Electrical Engineering
University of Washington - Seattle, WA