

Experience

Metis · San Francisco, CA Mar. 2020 to June 2020 Data Scientist

Completed an accredited 12-week immersive data science training bootcamp. Built 5 end-to-end projects using Python. Incorporated data acquisition, data management, data cleaning, machine learning, data visualization and delivered live online presentation of each on Zoom.

Selected work includes:

Get What You Need - Reddit Thread Recommender

- Built a recommendation engine that accepts custom user input and returns similar Reddit posts.
- Leveraged Reddit API (PRAW) to extract post text and other features.
- Used NLTK to clean, tokenize & lemmatize data.
- Used pandas to explore, merge and manipulate data.
- Created NMF model and UMAP projection for dimension reduction and topic modeling.
- Developed Flask application to demonstrate dynamic results.

Predicting Optimistic Outlooks in Americans

- Deployed a classification model that predicts survey respondents' perspective on the future based on life outlook, education, work and demographics.
- Sourced data from Pew Research Center and built 6 models using Scikit-learn to optimize F1 score.
- Selected logistic regression model for performance and interpreted feature importances.

Predictive Influences on Occupation-level Salaries in America

- Built a linear regression model that predicts (Adj. R2 = 0.67) occupational salary from 7 key job features.
- Scraped data using BeautifulSoup from O*net online, a government database.
- Used pandas, NumPy, Scikit-learn and statsmodels to clean data, select and engineer features
- Analyzed model performance and outputs.

Stanford Graduate School of Business · Stanford, CA July 2019 to Mar. 2020 Social Science Research Coordinator

- Programmed, tested and launched 200+ online surveys using Qualtrics, TurkPrime, Prolific, and SONA.
- Automated quarterly analyses using GoogleSheets, reducing administrative labor from hours to minutes.
- Collaborated with Data Analytics and Research Computing Team and Energy Business Innovations Initiative to prepare and structure dataset for exploratory analysis in Tableau.
- Interfaced with 20+ faculty and graduate students to plan and execute human subjects research.

UC Berkeley Haas School of Business · Berkeley, CA Aug. 2018 to Oct. 2019 Research Assistant, Management & Organizations

- Cleaned, merged, and restructured data sets for analysis in R.
- Scraped and hand-coded 100s of company profiles and reviews from Glassdoor for analysis in R.
- Brainstormed and collected 10s of proxy measures for psychological constructs for analysis in SPSS.
- Designed and delivered Excel Basics training for 15+ RAs.
- Conducted 2 literature reviews.

Backroads · Berkeley, CA Feb. 2016 to June 2018 Leader Scheduling and Data Analyst (Mar. 2017 - June 2018)

Promoted from Business Ops to gather, clean and analyze qualitative and quantitative employee data. Included attrition, performance, work schedules and surveys. Provided analysis and recommendations for policy, procedure and decision-making impacting hiring, training, compensation and staffing.

- Prepared weekly, monthly and ad-hoc reports using Excel, BI Launchpad and proprietary databases.
- Budgeted over \$2M annually, updated projections and investigated discrepancies quarterly.
- Worked with internal developers to clarify requirements and test prototypes for SQL and Crystal reports.
- Coordinated 2 executive level projects to transform trip leader pay schemas: monitored and reported on financial impacts, facilitated cross-functional meetings, consulted and collaborated with IT on systems enhancements, communicated progress and timeline.

Business Operations Specialist (Feb. 2016 - Feb. 2017)

- Negotiated rates and terms, tracked status, and communicated outcomes of 200+ vendor contracts.
- Participated in systems analysis and documentation in preparation for IT migration.

Colorado Outward Bound School · Leadville, CO May 2015 to Aug. 2015 Logistics Coordinator

- Improved employee relations by establishing feedback mechanism and encouraging its use.
- Arranged resource collection and delivery for 5 summer courses serving 100+ diverse clients.

Summary

Data scientist and researcher with 2+ years industry experience. Curious, analytical, and passionate about answering questions at the intersection of people and business.

Education

San Francisco State University July 2020 to Current
MS Industrial/Organizational Psychology
2022

McGill University 2010 to 2014
BA & Sc Environmental Science

Continuing Education 2015 to 2017
Business Administration
Coursework in Negotiation, Organizational Development, Project Management, Business Analytics, Managerial Economics and Financial Accounting

Skills

PROGRAMING & LIBRARIES

Python
SQL
Numpy
pandas
Scikit-learn
statsmodels

MACHINE LEARNING

Regression
Classification
Clustering
Natural Language Processing (NLP)

DATA MANAGEMENT

Git & Version Control
PostgreSQL
MongoDB
Amazon Web Services (AWS)

DATA VISUALIZATION

Flask
Tableau

OTHER

Data Manipulation
Experimental Research Design
Data Cleaning
Probability & Statistics
Calculus