CHRISTINA CARR

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Portfolio: https://github.com/ccarr1499/data-science LinkedIn: linkedin.com/in/christina-m-carr
I'm passionate about using data to better understand behavioral science and human decision making.

EDUCATION

Master of Information and Data Science
University of California, Berkeley *Aug. 2020 - Aug. 2021*
- Inaugural and sole recipient of the Sharon Lin & Andrew Bullen Graduate Fellowship in Data Science

Coursework
Research Design and Applications for Data and Analysis | Statistics for Data Science | Fundamentals of Data Engineering | Applied Machine Learning | Natural Language Processing with Deep Learning | Data Visualization | Experiments and Causal Inference

Bachelor of Arts, High Honors in Cognitive Science
University of California, Berkeley *Aug. 2016 - May 2020*
- Moore Accuracy Lab: Research Assistant *May 2019 - May 2020*
  - Investigated the influence of different environments on overconfidence in decision making
- Data Scholars at Berkeley: Lead of Communications and Outreach *Jan. 2017 - Jul. 2017*
  - Led and organized orientation and networking events
  - Facilitated the creation of a mentorship program to assist underrepresented students in data science
- University of California Marching Band: Trip Manager, Food Manager *Jan. 2018 - Dec. 2018*
  - Managed the travel and logistics for the band's (250+ person) trip to Los Angeles
  - Negotiated a lower hotel reservation cost by encouraging competition between multiple hotels

RESEARCH AND WORK EXPERIENCE

Academic Student Employee
University of California, Berkeley *Aug. 2020 - Present*
- Led and taught weekly discussion meetings for an introductory course on Brain, Mind, and Behavior
- Designed course lessons, review, and exam questions
- Facilitated one-on-one and group review sessions and feedback in the form of tutoring and office hours

Lead of Customer Data Analytics
Osher Lifelong Learning Institute *Aug. 2018 - Present*
- Discovered substantial points of financial loss in the company's fee system, and researched ways to mitigate this loss by analyzing customer spending habits in Python
- Measured the effectiveness of increasing member outreach by creating a report on the change in breadth of customer locations using Python heatmaps
- Programmed a predictive customer churn model using Python's scikit-learn package to guide business decisions related to targeted discounts and customer recruitment
- Executed a sentiment analysis project on survey data to measure customer satisfaction in the transition to online courses

Operations Coordinator
Classroom Management Program *Aug. 2017 - Dec. 2018*
- Analyzed nightly shift data on student groups' classroom use responsibility, using this data to communicate warnings to group leaders if policies were violated
- Managed 40+ employees, ensuring they accurately and concisely reported on classroom use infractions
- Increased efficiency and ease of analysis by designing an online form for future company use

SKILLS

Python (pandas, matplotlib, scikit-learn, re, scipy, csv, nltk) | R (ggplot2, dplyr, tidyr, stringr) | SQL | Tableau | Microsoft Suite | Google Drive | Photoshop | InDesign | Communication | Teamwork | Leadership

PROJECTS

Braille Translation with a Keras-Based Language Model

Natural Language Processing with Deep Learning *February 2021 – April 2021*

- Creating a predictive language model for translating images of US contracted Braille to the Latin alphabet using Keras and the noisy channel model

Investigating University Underreporting of Covid-19 Cases

Data Visualization *February 2021 – April 2021*

- Developing a user-friendly interactive website using Altair in Python and HTML to investigate the pervasiveness of underreporting of Covid-19 cases at universities across the US

Music to Promote Auditory Comprehension

Experiments and Causal Inference *February 2021 – April 2021*

- Researching the effectiveness of listening to classical music on auditory comprehension using Qualtrics for survey development and R to conduct statistical analysis on the data

MRI Dementia Classifier

Applied Machine Learning *Nov. 2020 – Dec. 2020*

- Created an image classification model to predict stage of dementia of an MRI scan using Keras and K-Nearest Neighbors

Lyft Bay Wheels

Fundamentals of Data Engineering *Aug. 2020 – Sept. 2020*

- Answered business-driven questions about data from Lyft Bay Wheels in a project using SQL and Jupyter Notebooks with Google Cloud Platform and BigQuery

Digit Classification

Applied Machine Learning *Aug. 2020 – Sept. 2020*

- Implemented an image recognition system for a classification project studying digits using K-Nearest Neighbors, Naive Bayes, and Linear Regression classifiers in Python's scikit-learn package

Self-Esteem and Self-Enhancement Bias

Senior honors thesis; Moore Accuracy Lab *Aug. 2019 – May 2020*

- Conducted my honors thesis researching the influence of self-esteem on the exhibition of self- enhancement bias by cleaning, visualizing, and modeling data using statistical tests in R