

ANGIKAAR SINGH CHANA

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PROFILE

- Ambitious data scientist with a strong foundation in artificial intelligence and machine learning (AI/ML).
- Seeking to deliver innovative data-driven solutions across diverse industries.

EDUCATION

School of Information, University of California, Berkeley

GPA: 3.91

Master of Information & Data Science

Aug 2022 – Dec 2023

RELEVANT COURSEWORK: Research Design & Applications, Agnostic Statistics, Data Engineering, Applied Machine Learning, Machine Learning at Scale (in progress), Computer Vision (in progress)

University of California, Berkeley

Overall GPA: 3.80 | Upper-Division GPA: 4.00

Bachelor of Arts in Public Health and Data Science (Emphasis in Human Biology)

Aug 2018 – May 2022

RELEVANT COURSEWORK: Principles & Techniques of Data Science, Data Inference & Decisions, Data Mining & Analytics, Statistics, Quality Control & Forecasting, Organic Chemistry, Biochemistry, Biostatistics & Epidemiology, Anatomy

RELEVANT EXPERIENCE

Schools of Information & Education, University of California, Berkeley

Berkeley, CA

Lead Graduate Student Instructor, Data Mining & Analytics

Aug-Dec 2022

- Co-led the ~600-student Data Mining & Analytics course at UC Berkeley with Professor Zach Pardos, Ph.D.
- Delivered presentations and lectures on course content, such as decision trees, word vectorization, machine learning modeling, predictive neural networks (PNNs), convolutional neural networks (CNNs), and the course's final project.
- Conducted instructional staff meetings, intently delegating tasks to a team of twelve teaching assistants.
- Served as the primary contact for 50 students with disability accommodations to ensure equitable course access.
- Awarded UC Berkeley's Outstanding Graduate Student Instructor Award, nominated jointly by faculty and students.

Alameda County Public Health Department

Oakland, CA

COVID-19 Emergency Response Team Intern, Division of Communicable Disease & Prevention

Jan-May 2020

- Assisted in developing a secure database to trace early COVID-19 cases, working with officials to diagnose risk & response.
- Helped compose, administer, and sign quarantine orders for over 200 COVID-19 cases in Alameda County.
- Became certified to perform emergency vaccinations in Alameda County.

PROJECTS

An Examination into the Effect of Movie Budgets on Average Movie Rating

Dec 2022

R: *tidyverse*, *dplyr*, *ggplot2*, *stargazer*

- Used the *tidyverse* package to import movie data from TMDb/Kaggle and derive linear regression models demonstrating the effect of a movie's budget on its average TMDb movie rating, considering runtime, title, and tagline as confounders.
- Concluded there is no effect independently but that there may be a weak causal effect when considering runtime & title.

An Investigation into the Causality of Political Party Endorsements on Primary Election

Victories and the Effect of Campaign Contributions on Primary Election Results

May 2021

Python: *NumPy*, *pandas*, *SciKit.learn*, *SciPy.stats*, *TensorFlow*, *Keras*, *matplotlib*, *seaborn*

- Used *NumPy*, *pandas*, and *SciPy.stats* to collect and mutate data pertaining to the 2020 primary campaign contributions.
- Trained various machine learning algorithms, such as logistic regression, using *SciKit.learn* and *TensorFlow/Keras* to predict candidates' primary victories based on campaign contributions & political endorsements with 95% accuracy.
- Visualized relevant data using *matplotlib* and *seaborn* to illustrate our findings in bar charts, heatmaps, scatterplots, etc.
- Concluded that campaign contributions have a significantly higher effect on primary victories than political endorsements or other forms of campaigning, possibly due to its relation to advertising and marketing.

ADDITIONAL

AWARDS AND HONORS: Outstanding Graduate Student Instructor Award (2022), Half-Ride Fellowship to Master's Program (2022), UC Berkeley's Data Scholars Honors Program (2019)

COMPUTING LANGUAGES: Python (*NumPy*, *pandas*, *SciPy.stats*, *matplotlib*, *seaborn*, *SciKit.learn*, *TensorFlow/Keras*), R (*tidyverse*, *dplyr*, *ggplot2*, *stargazer*), SQL (*postgres*, *NoSQL*, *neo4j*), Java

TECHNICAL SKILLS: Data Analytics, Data Manipulation (ETL), Data Visualization, LaTeX, Data Engineering, Data Mining, Artificial Intelligence (AI), Machine Learning (ML), Deep Learning (DL), Neural Networks (CNNs/RNNs), Amazon Web Services (AWS), Elastic Cloud Computing (EC2), Word Vectorization, Natural Language Processing (NLP)

HIGHLIGHTED ACTIVITIES:

- School of Information, UC Berkeley (Elected Cohort Representative)
- Undergraduate Laboratory at Berkeley (President, Research Director)
- Health & Medical Apprenticeship Program (President, Lead TA)
- Beyond Academia (Co-President, Conference Logistics Director)
- ASUC – UC Berkeley Student Government (Chief Justice)
- Queer Alliance & Resource Center (Finance & Graduate Equity Director)