Chloe Florit

(415) 494-1427 | chloe.florit@gmail.com | www.linkedin.com/in/chloeflorit

EDUCATION

University of California, Irvine | Irvine, CA **Sep 2024 – Dec 2025**

Master of Data Science

- **Relevant Coursework:** Artificial Intelligence, Databases and Data Management, Intermediate Probability and Statistical Theory, Machine Learning and Data Mining *(anticipated)*, Deep Learning *(anticipated)*, Time Series Analysis *(anticipated)*

University of California, Los Angeles (UCLA) | Los Angeles, CA **Sep 2020 – Jun 2024**

B.S. in Mathematics and Economics

- **Relevant Coursework:** Probability Theory, Statistics, Optimization, Linear Algebra, Python with Applications I/II, Econometrics, Micro/Macroeconomic Theory, Calculus I/II/III

King's College London | London, United Kingdom **Jan 2024 – Jun 2024**

Semester Exchange: Statistical Modeling, Fourier Analysis, Organizational Change, and Marketing Analytics

PROFESSIONAL EXPERIENCE

Cisco Systems | *Technical Intern* | Remote **Jun 2023 – Sep 2023**

- Researched and presented strategies to reduce hallucinations of Large Language Models (LLMs).
- Used LoRA to finetune Large Language Models on benchmark datasets (ReClor, LogiQA).
- Fine-tuned LLaMA models using zero-shot and one-shot prompting.

UCLA Department of Mathematics | *Undergraduate Research Assistant* | Los Angeles, CA **Sep 2022 – Jun 2023**

- Developed agent models in Python for pedestrian evacuation incorporating behavioral changes based on crowd densities.
- Conducted exploratory Python data analysis on a Swedish dataset to examine the effects of paternal shock across generations.
- Prepared findings in the form of a paper for the head of the department.

DataRes | *Data Blogger* | Los Angeles, CA **Sep 2022 – Mar 2023**

- Collaborated in teams of 4-5 members to find data on a topic of interest.
- Conducted data analysis in Python (with Pandas, NumPy, Matplotlib, Seaborn), produced visualizations, and communicated findings through written articles.
- Trained machine learning models to detect sarcasm in Reddit news headlines.
- Used logistic regression and Naive Bayes algorithms to classify sarcasm, achieving up to 90% accuracy using Term Frequency-Inverse Document Frequency (TF-IDF) for feature extraction.

KEY PROJECTS

Fake News Classification **April 2022**

- Developed a TensorFlow-based fake news classifier by standardizing and vectorizing text data, achieving 99.3% accuracy on test data.
- Designed and evaluated three models using title, text, and combined features, identifying the combined approach as the most effective with 99.5% validation accuracy.
- Created embedding visualizations to analyze patterns in word usage, highlighting key indicators of misinformation.

NOAA Climate Data **May 2022**

- Developed SQL queries to extract climate data for specified countries, years, and months.
- Applied linear regression to estimate yearly temperature increases for cities, visualizing trends with interactive maps and scatterplots using Plotly.
- Created visualizations comparing temperature trends across multiple cities in India, illustrating the estimated yearly temperature increase and station-level temperature variations over selected timeframes (e.g. 1980–2020).

Lyric Generator *(group work)* **June 2022**

- Designed and implemented a web app to generate song lyrics based on user-selected artists.
- Built an n-gram Markov Model to generate lyrics, leveraging transition probability distributions for character prediction.
- Used Scrapy to scrape lyrics from Genius.com, dynamically integrating real-time data with the app.
- Integrated web scraping and the Markov Model with Flask.

SKILLS AND INTERESTS

- **Programming Skills:** Python (NumPy, Pandas, Scikit-Learn, Matplotlib, Seaborn, TensorFlow, Web Scraping, Flask, Plotly, Mesa, LoRA), SQL.
- **Tools:** Microsoft Excel, GitHub, Tableau, Jupyter.
- **Languages:** French (fluent), English (fluent), Spanish (proficient).