

# Katharine Lee

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Data Scientist with 3+ years experience in data science and data analysis. Former freelance film producer with previous experience in project management, effective communication, and team development.

## EDUCATION

### Northeastern University - Boston, Massachusetts

August 2024

MS Data Analytics Engineering

- Gordon Institute of Engineering Leadership Fellow
- Relevant Coursework: Data Mining, Computer Visualizations, Database Management, Agile Methodologies, Product Engineering, Market Assessment

### University of California, Irvine - Irvine, California

June 2021

BS Applied Mathematics | Campuswide Honors Graduate

BA Quantitative Economics | Campuswide Honors Graduate

## RELEVANT EXPERIENCE

### LYT.ai

*Data Science Intern*

October 2023 - August 2024

- Reduced onboarding analysis labor hours by 90% by developing, optimizing and maintaining an autonomous data utilization analyzer using Python mapping mechanics with GeoPandas and Folium
- Utilized SQL queries to extract and aggregate data from various SQL databases (MariaDB, MySQL, PostgreSQL) to aggregate all data into one analysis source
- Extracted and analyzed real-time automatic vehicle location data to design custom visualizations for customers using Matplotlib and Plotly, displaying data trends for decision-making
- Managed version control using Git, facilitating efficient collaboration and code review processes

### Northeastern Lab for Inclusive Entrepreneurship

*Graduate Research Assistant*

November 2022 - January 2024

- Produced interactive heatmaps, choropleth maps, and 3D geospatial visualizations, improving stakeholder understanding of geographic data insights on supplier diversity initiatives across the country by comparing over 20 different features of school information
- Presented lab's studies at the national conference for the National Association of Education Procurement (NAEP) on the topic of "Supplier Diversity Trends in the New England Area"

### UCI School of Social Sciences, Department of Economics

*Research Assistant (under Dr. Vellore Arthi)*

January 2021 - August 2021

- Scraped over 100,000 entries of ship logs using an automated Python web scraper built using Selenium and BeautifulSoup
- Optimized code and Improved speed of web scraper by 20%
- Saved 50 hours of labor by building an autonomous sorter which sorted over 10,000 csv files by date

## TECHNICAL SKILLS AND PROJECTS

- Programming: Python, Matlab, SQL, PowerBI, Tableau, R, HTML
- Administrative: Agile Methods (SCRUM, Kanban, LEAN, DSDM), Google Suite (Docs, Sheets, Forms), Microsoft Suite (Word, Excel, PPT)

### Restaurant Review Prediction Model

- Built a natural language processor that could determine if a restaurant review was positive or negative using Pytorch with 82% accuracy

### Cats and Dogs Sound Recognition

- Trained a neural network using Librosa and Tensorflow that recognizes the sound differences between dogs and cats with 90% accuracy