

ELLEN WEI

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More work at:
🌐 ellenwei.github.io

EDUCATION

University of California, Los Angeles 2020-2024

BS in Statistics & Data Science, Bioinformatics

Honors: Dean's List

Graduate level marked with *

Statistics Coursework: Computational & Mathematical Statistics, Statistical Inference, Time Series Analysis, Statistical Consulting, Research in Statistics, Linear Models

Computer Science Coursework: Algorithms, Data Structures, Databases, Machine Learning, Systems and Signals, *Deep Learning for Computer Vision, *Computational and Systems Biology, *Algorithms in Genomics

Finance Coursework: *Statistical Models in Finance, *Decision-Making in Stochastic Finance

EXPERIENCE

Sumitomo Mitsui Banking Corporation (Software Developer Analyst) *current*

- Transformed and analyzed data from 4000 records across ~30 software discovery schedules, identifying issues that were previously undetected, using Python; integrated with Azure DevOps pipeline to extract and transform live data; built custom UI Pages for dynamic visualizations
- Built data pipeline to perform sentence matching on 300k+ items using DataBricks, Data Lake

Sumitomo Mitsui Banking Corporation (Data Science Intern) June-Aug 2023

Analysed 200k+ records of IT Asset Management and systems infrastructure data using Python, Azure DevOps, and ServiceNow to build dashboard used by CTO for regular incident monitoring.

UCLA Computational Diagnostics Lab (Research Assistant) Aug-Nov 2023

UCLA Data Science in Cardiovascular Medicine Research Program June-Nov 2022

ASA Datafest @UCLA (Best Visualization Award) April 2022

- Presented analysis of a 150k+ record role-playing video game raw dataset using innovative visualisations to showcase behavior in relation to in-game avatar information
- Spearheaded data processing and model development for player segmentation using time series data and clustering techniques in R and Python

PROJECTS

Object Detection Algorithms Technical Blog Jan-Mar 2023

<https://ucladeeppvision.github.io/CS188-Projects-2023Winter/2023/03/26/team20-object-detection.html>

Researched and evaluated the performance of 5 R-CNN based models and YOLO for transfer learning

Statistical Models in Finance Portfolio Optimization Dec 2023

Implemented and evaluated stock market portfolio performance using models such as single index, multigroup, multi-index, efficient frontier, and Black-Scholes to optimize portfolio allocation and risk management strategies

US Employment Rate Report Jan 2023

- Conducted time series analysis and compared forecasting models on rate fluctuations
- Performed trend analysis, compared multiple models such as exponential smoothing, ARIMA, multiple regression, random forest, GBM, Prophet

Languages: Python, R, SQL, C++, HTML, CSS, JavaScript

Technologies/Frameworks: MongoDB, Apache Spark, Azure DevOps, PostgreSQL, ServiceNow, Linux, Cloud Services, Docker, React Native, Tableau, PyTorch, sci-kit learn, Tensorflow, spark ML