ELLEN WEI

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EDUCATION

University of California, Los Angeles   2020-2024

BS in Statistics&Data Science, Bioinformatics *(Dean's List)*

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

Statistics Coursework: Computational & Mathematical Statistics, Statistical Inference, Time Series Analysis; *Graduate level:* Statistical Models in Finance, Decision-Making in Stochastic Finance

EXPERIENCE

Sumitomo Mitsui Banking Corporation   July 2024
Technology Analyst   *New York, NY*

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

- Analysed 200k+ rows of IT Asset Management and systems infrastructure data using Python, Azure DevOps, and ServiceNow, directly reporting findings to the CTO for informed decision-making
- Created and updated systems dashboards to visualize real-time system metrics, minimizing downtime, wrote Key Reporting Index documentation for sustainable operational monitoring

UCLA Computational Diagnostics Lab (Research Assistant)   Aug-Nov 2023
UCLA Data Science in Cardiovascular Medicine Research   June-Nov 2022
Program (Research Assistant)

AWARDS

ASA Datafest @UCLA (Best Visualization)   April 2022

Hack with a Pro @UCLA (3rd), OurFridge   April 2024

Developed a functional collaborative food-sharing web app by leading UI/UX design, database design, and front-end development using React Native and Firebase to fight food waste

PROJECTS

LA Hacks, BioQuest (*https://devpost.com/software/bioquest)*   April 2024

- Created a mobile app for instant plant and animal identification using Python, React Native, MongoDB, Flask and Google Gemini Api to implement detailed species information, quizzes, and social sharing functionalities
- Optimized a TensorFlowLite image classification model, deployed on Intel Developer Cloud for further performance efficiency

Object Detection Algorithms Technical Blog   Jan-Mar 2023
https://ucladeepvision.github.io/CS188-Projects-2023Winter/2023/03/26/team20-object-detection.html
Analysed and discussed the performance of 5 R-CNN based models and YOLO for transfer learning using OpenMMLab's MMDetection and PyTorch on an aerial maritime applications

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

Technologies/Frameworks: MongoDB, Apache Spark, Azure DevOps, PostgreSQL, ServiceNow, Linux, Cloud Services, Docker, React Native, Tableau