Vivian Lin

✉ vil018@ucsd.edu 📞 +1 (619) 748-0017 LinkedIn: https://www.linkedin.com/in/vivian-lin-131028250

Summary

Motivated and aspiring Data Scientist with strengths in Python, data analytics, and machine learning. Skilled in synthesizing insights through visualization, regressions, and collaboration across teams, with a goal of leveraging data-driven strategies to evaluate emerging AI technology and optimize business decisions.

Skills

Programming Languages: Python, Java, Javascript, HTML, CSS, SQL, LaTeX, MATLAB
Software Tools: Github, Jupyter Notebook, VSCode, Intellij, Figma, Microsoft 365, Google Workspace, AWS, Spark, Tableau
Libraries: Pandas, Numpy, Scikit-Learn, Matplotlib, Plotly, D3

Education

University of California, San Diego *Sept 2023 – June 2027*
B.S. in Data Science and Minor in Business Economics
Chinese University of Hong Kong *June 2025 – Aug 2025*
UCEAP: Research in Hong Kong

Experiences

Data Analyst Intern *La Jolla*
Y Montessori *Sept 2025 - Present*

- Completed hands-on training in Tableau and Figma, enhancing storytelling and design skills
- Extensively researched Montessori teaching practices, creating parent-facing data reports that clarifies benefits of Montessori schools and support school selection

Undergraduate Researcher *Hong Kong*
Chinese University of Hong Kong *June 2025 - August 2025*

- Executed a research study to analyze alignment of higher education curriculum and labor market demands, addressing key gaps in literature and helping students find best fit industry for their majors
- Scraped PDF data, creating robust course dataset of 50 departments, enabling large-scale, in-depth textual analysis
- Applied NLP data modeling and quantitative analysis to identify skill overlaps between course descriptions and job descriptions, generating insights to curriculum alignment and career guidance decisions
- Conducted regressional analysis on Excel to evaluate correlations between scores and wages, finding no significance
- Synthesize research findings into a comprehensive presentation and report, communicating results to peers and faculty and providing frameworks for future cross-national studies on curriculum-job alignment

Projects

Advanced Emergency Alert *La Jolla, CA*
University of California, San Diego *April 2025*

- Led team towards identifying target audience – teenagers and young adults via interviews and online research
- Designed interactive scrollable short-form live video and map alert experience – enhancing usability and situational awareness from existing alert system
- Analyzed experiments to test campus-wide prototypes, measuring effectiveness and engagement for improvements

Is Your Heart Racing? *La Jolla, CA*
University of California, San Diego *Feb. - March 2025*

- Analyzed patterns of heart rates throughout surgical procedures, offering insights into patient's risk factors and recovery expectations
- Built an interactive data visualization, driving user engagement at Final Showcase and enabling exploration patients' heart rate patterns during emergency surgery cases
- Managed team to successful completion; project ranked as top 5% of the class projects and won *Best Project Award*

Power Outage Analysis *La Jolla, CA*
University of California, San Diego *Nov. - Dec. 2024*

- Cleaned and transform dataset to study univariate and bivariate relationships and patterns of power outages through various types of visualizations
- Built a bi-classification pipeline prediction model and optimized hyperparameters to best predict where severe power outages are more likely to happen
- Diagnosed influential features and incorporated feature engineering, iteratively improving accuracy and F-1 score.