

# Vivian Lin

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## Summary

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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

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**Programming Languages:** Python, Java, Javascript, HTML, CSS, SQL, LaTeX, MATLAB

**Software Tools:** Github, Jupyter Notebook, VS Code, IntelliJ, Figma, Overleaf, Microsoft 365, Google Workspace, AWS, Spark, Tableau

**Libraries:** Pandas, Numpy, Scikit-Learn, Matplotlib, Plotly, D3

## Education

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**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

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**Data Analyst Intern**

*La Jolla*

*Y Montessori*

*Sept 2025 - Present*

- Completing 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 regression 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

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**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.