

Ryan Voda

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EDUCATION

University of California, Los Angeles

Sep. 2020 – Dec. 2023

Bachelor of Science in Mathematics; GPA: 3.76

Los Angeles, CA

- Coursework: Python with Applications, Introduction to Computer Science, Linear Algebra, Introduction to Probability, Real Analysis, Applied Numerical Methods, Calculus of Several Variables, Differential Equations

EXPERIENCE

Learning Assistant

Jan. 2023 – Present

University of California, Los Angeles

Los Angeles, CA

- Led review sessions in weekly discussion sections for 35 students.
- Held 60-minute office hours to simplify Calculus 3 concepts.
- Coordinated with the TA and professor to implement lesson plans.

Research Assistant

Mar. 2022 – Jun. 2022

(UCLA) California Health Survey Analysis with Prof. Harlin Lee

Los Angeles, CA

- Cleaned and interpreted CHIS-2020 data in Python using pandas and numpy.
- Found correlations between distress levels and 13 factors related to COVID-19 with linear regression.
- Verified 92 percent correlation by applying scipy statistical tests such as spearmanr and chisquare.
- Produced data analysis summary using plotly and matplotlib.

PROJECTS

Citation Generator and Converter | *JavaScript, HTML*

Dec. 2022

- Constructed a website that generates 8 different types of bibliography citations.
- Developed a citation converter that allows the user to translate between 2 formats easily.

Milk Grade Classification | *Python*

Aug. 2022

- Imported dataset from <https://www.kaggle.com/datasets/prudhvignv/milk-grading> to predict milk quality using categorical and quantitative characteristics of milk.
- Cross-validated feature selection tests to find the strongest predictive features of milk grade.
- Conducted hyperparameter tuning to apply results on several appropriate Machine Learning models.

Post-College Salary Dashboard | *Tableau*

Aug. 2022

- Created an interactive dashboard using salary data from <https://www.kaggle.com/datasets/wsj/college-salaries>.
- Presented 5 different visualizations for users to easily understand information, such as median salaries per major, type of school, and stage of career.

Fantasy Soccer Team Generator | *Python*

Jul. 2022

- Scraped and cleaned data from <https://fplform.com/fpl-predicted-points> to obtain player statistics.
- Optimized team for maximum projected points when given constraints and game rules via Linear Programming.
- Implemented a feature that updates the team each week and makes appropriate transfers.
- Achieved a top 50 percent performance throughout the duration of the project.

Penguins Species Predictor | *Python*

Feb. 2022

- Worked with team to build optimal Machine Learning model for predicting penguins species from the Palmer Penguins dataset.
- Performed data analysis and visualization to narrow down our selection of features.
- Designed a function to automatically clean and prepare data for train/test split.
- Evaluated performance of several models, such as Random Forest, Logistic Regression, and Clustering.

TECHNICAL SKILLS

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

Technologies: Tableau, Excel, SAS

Other: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Mosaic, Git