Ryan Voda

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Education

University of California, Los Angeles Sep. 2020 – June 2024
Bachelor of Science in Mathematics; GPA: 3.75 *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

Data Analyst Mar. 2022 – June 2022
Research Assistant *Los Angeles, CA*

* Cleaned and interpreted CHIS-2020 data in Python using pandas and numpy.
* Found correlations with linear regression in scikit-learn.
* Verified findings with scipy statistical tests such as spearmanr and chisquare.
* Visualized data analysis using plotly and matplotlib.

Data Analyst Sep. 2021 – Present
UCLA Esports Analyst (Overwatch) *Los Angeles, CA*

* Analyzed player statistics from scrimmages to identify patterns and trends that contributed to losses.
* Created visualizations with Excel to evaluate relative team strengths and visualize strategies.
* Led the team in developing and implementing plans based on findings, leading to improved performance.

Teaching Assistant Present
Calculus III T.A. *Los Angeles, CA*

* Supported professor by grading assignments and exams.
* Held office hours to simplify difficult concepts for students.
* Led review sessions in weekly discussion sections and created a positive learning environment.

Projects

Fantasy Soccer Team Generator | *Python* July 2022 – Present

* Scraped and cleaned data from https://fplform.com/fpl-predicted-points using BeautifulSoup 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.

Milk Grade Classification | *Python* Aug. 2022

* Imported kaggle dataset 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.

Citation Generator and Converter | *JavaScript, HTML* Dec. 2022

* Created website that generates bibliography citations for books and websites in MLA/APA format.
* Developed a citation converter that allows the user to easily translate between formats.

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.
* Created 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