Wayland La

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SKILLS & INTERESTS

Hard Skills:
-Machine Learning Knowledge: **Scikit Learn, TensorFlow, PyTorch**
-EDA & Data Visualization: **Numpy, Pandas, Matplotlib, & Seaborn in Python/Jupyter**
-Web Development in HTML, CSS, JS, and React
Soft Skills: Leadership, Problem-Solving, Strategic Planning, Strong Communication, Team Player

EDUCATION

University of California, Berkeley   **Berkeley, CA**
Expected Graduation: 2027
- Intending in Applied Mathematics, Data Science
- Data Science Foundations Scholar
- Relevant courses: Intro to Data Science, Intro to Full Stack Development, Multivariable Calculus

Westmoor High School   **Daly City, CA**
High School Student 2019-2023 (GPA: 4.5)
- Relevant Classes: AP Calculus, Web Development, AP Physics, AP Government, and AP Macroeconomics

ATDP / Computer Science Principles (AP-aligned)   **Berkeley, CA**
Student June 2022-July 2022 (Grade: A+)
- Summer Program that teaches concepts about Object Oriented Programming in Java.
- built important Java skills which helped my confidence in high school and personal projects

EXPERIENCE

Westmoor Robotics Club - Lead Programmer/Officer   **Daly City, CA**
Westmoor High School   *2019-2023*
- Main Skills: Computer Vision, Object Oriented Programming in Java
- The Robotics Club competes in tournaments around the Bay Area for FTC, and as lead programmer, I taught how to program the robot for the robot to easily function when versing other schools
- Taught younger members the basics of programming in Java, to code the functionalities of the robot used in competitions, and to communicate with the leaders of the build team to create a working robot throughout the school year.
- In early 2023, our team won the Control Award due to our excellence in programming during competitions.

Simulations Team Member / *Data Analytics and Simulations*   **Berkeley, CA**
Space Enterprise at Berkeley   *Jan 2024-May 2024*
- Data cleaning and filtering rocketry data through Python Pandas and Numpy
- Visualizations through Python on simulations from data to help improve on SEB's nitrogen powered rockets

PERSONAL PROJECTS

[Parkinson's Disease Classifier](#)
Tensorflow/Keras Deep Learning Neural Networks, Machine Learning (XGBoost Classifier)
- Using artificial neural networks, created >90% accurate diagnosis for Parkinson's Disease, comparing it to XGBoost ML
- Includes Visualizations and finds correlations within the data

[Annual Salary Prediction](#)
NLP (Count Vectorizer), ML (Decision Tree Regressor), Preprocessing, EDA
- Using two Kaggle datasets (Glassdoor) with information (education, experience, etc.) to predict annual salary
- After Data Preprocessing, EDA, and visualizations to understand dataset, tested Regression Algorithms for optimization
- Two files comparing the difference of accuracy, NLP Count Vectorizer vs simple One Hot Encoding
- >95% accuracy using NLP and Count Vectorizer and tweaking using GridSearchCV

[Noise Pollution in the US Analysis](#)
Machine Learning w/ Sklearn, Hypothesis Testing, EDA
- Hypothesis tests on correlations between excess noise and Population Density, using correlations and histograms
- Based on database of major cities in the US and their noise pollution created visualizations to predict excess noise based on variables
- [Information about Project](#)

Tech Product Analysis
EDA, Python Data Visualization
- Built visualizations in Jupyter Notebooks by taking a Kaggle dataset of over one hundred thousand online transactions
- Created graphs of the increase and decrease in sales within times of the day or times of the year
- Bar and plot graphs showing correlations in prices and amount sold
- Skills Used: Numpy, Pandas, Matplotlib, Seaborn

[Personal Website](#)
HTML, CSS, JS, React
- Personal Website Displaying more of my Resume, Personal Projects, and about myself in general