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

ONGB Data Science Discovery Internship **Oakland, CA**
Oakland Native Give Back *Sep 2024-Present*
- Skills Used: Machine Learning, Pandas, Matplotlib, Seaborn
- Built visualizations in Jupyter Notebooks on absenteeism for Oakland public schools
- Using Machine Learning to predict types of students that would be more apt to fall behind
- Recommended Programs targeting these types of students to improve the rate of attendance

Academic Tutor @ Data 8 (Foundations of Data Science) **Berkeley, CA**
UC Berkeley College of Computing, Data Science, and Society *Aug 2024-Dec 2024*
- Taught Data Science Skills such as Python, Data Manipulation (Tables), and Data Visualization
- Led tutoring sections helping students who struggled to learn class material

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
- 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

Personal Website
HTML, CSS, JS, React
- Personal Website Displaying more of my Resume, Personal Projects, and about myself in general