# Dyuthi (Dyu) Vijay

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## Education

**University of California Santa Cruz** — Santa Cruz, CA
*BS Cognitive Science (AI Specialization), Minor in Statistics* — *GPA:4.0, Grad:2026*

## Relevant Courses

CSE 242: Introduction to Machine Learning, CSE 20: Introduction to Python, MATH 19B: Calculus 2, MATH 21: Linear Algebra, STATS 131: Introduction to Probability Theory,

## Skills

**Data Analysis and Visualization:**: Excel, Python, Seaborn, Matplotlib, NumPy, Tableau, Biopython, Data Cleaning
**Programming Skills**: Python

## Experience

**Bioengineering Intern** — June '24 – Sept '24
*Aquillius* — *San Diego*

- Analyzed genomic data to identify potential biomarkers for respiratory diseases, resulting in a 15% improvement in the accuracy of disease prediction models.
- Leveraged Python's powerful data processing libraries such as Pandas and NumPy to handle large-scale data manipulation, reducing data processing time by 20%.
- Used Biopython for sequence analysis and scikit-learn for exploratory data analysis, enhancing the identification of key genetic markers.
- Developed Python scripts to automate the preprocessing of genomic data, which included filtering out noise, normalizing data, and aligning sequences, leading to a 30% increase in data analysis efficiency.

**Data Analyst Intern** — June '23 – Sept '23
*Advanced Trustee Strategy Wealth Management* — *San Diego*

- Analyzed investment portfolios and provided actionable insights to high-net-worth clients, contributing to a 10% increase in client satisfaction scores.
- Leveraged Python libraries such as Pandas for data manipulation and NumPy for numerical analysis, improving the accuracy of portfolio assessments by 15%.
- Worked closely with the firm's financial advisors to translate complex data into easily understandable insights for clients, enhancing client communication effectiveness by 25%.
- Employed scikit-learn for predictive modeling, enabling accurate forecasting of market movements and their impact on client portfolios, leading to a 12% improvement in investment decision-making.

## Projects

**Audio Keyword Classifcation** | *Python* — Jan '24 - June '24

- Developed a model to accurately identify and classify keywords in audio clips, achieving an 85% accuracy rate in keyword detection.
- Used Pandas to handle missing values, remove duplicates, and structure the data for efficient analysis, improving data handling efficiency by 20%.

**Website Traffic Analysis** | *Python* — Feb '24 - April '24

- Analyzed web traffic data to understand user behavior and identify trends, resulting in a 25% increase in user engagement through targeted improvements.
- Utilized Pandas for data cleaning and segmentation, streamlining the analysis process by 30%.
- Created detailed visualizations in Tableau to showcase traffic sources and user engagement metrics, leading to actionable insights that boosted website performance by 20%.

## Clubs

**Casual Coding Club President** | *Python* — Jan '24 - Present

- Led a university coding club focused on developing Python-based solutions for non-profits, organizing workshops that increased member participation by 40% and improved coding proficiency.