

# Vivek Chudasama

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## EDUCATION

**Purdue University**, West Lafayette, IN

August 2021 – May 2025

Bachelor of Science in Data Science and Bachelor of Science in Applied Statistics

## WORK EXPERIENCE

**Undergraduate Teaching Assistant**

August 2022 – Present

*The Data Mine, Purdue University, West Lafayette, IN*

- Conduct regular office hour sessions for large introductory data science class (TDM 101) to provide targeted support and reinforce course lectures and skills, serving over 1,000 students yearly
- Develop 16 homework assignments per semester centered around Python and R in data analysis-settings, with an effort to foster data analysis skills within students
- Collaborate in the grading of weekly assignments, offering essential feedback to help students grow and understand the field of data science

**Full-Stack Software Engineering Intern**

January 2023 – December 2023, May 2024 – August 2024

*KeyByte LLC, West Lafayette, IN*

- Initiated a Redis database integration in the frontend infrastructure of the main React product, optimizing data processes for improved application performance and responsiveness
- Used Python and JavaScript to graph workload performance of main product versus performance of competitors for demonstrations with potential investors
- Transitioned frontend-to-backend networking from raw TCP connections to HTTPS connections, making the process more secure for clients and developers alike
- Showcased problem-solving and organization skills by navigating through the disorganized main codebase and restructuring it to be more user-friendly

**Data Science Intern**

August 2022 – December 2022

*Sandia National Laboratories, Remote*

- Developed flight tracking algorithms and data models to improve the accuracy and efficiency of aviation data analysis.
- Analyzed large datasets related to flight trajectories, leveraging machine learning techniques to identify patterns and optimize tracking processes
- Collaborated with a multidisciplinary team to design and implement data-driven solutions for national security and research initiatives

**Data Science Intern**

August 2021 – May 2022

*USAA, Remote*

- Utilized Python pandas to conduct data analysis and modeling to identify key factors influencing interest from potential new customers
- Refined marketing strategies by developing predictive models to analyze customer behavior and preferences
- Collaborated with cross-functional teams to implement data-driven recommendations, resulting in improved customer acquisition strategies

## VOLUNTEER EXPERIENCE

**Vice President of Finance**

August 2021 – Present

*Purdue University Dance Marathon (PUDM), West Lafayette, IN*

- Leveraged Python and Excel for advanced data analysis, boosting sponsorship revenue by 300% from the prior year
- Streamlined sponsor reporting by automating quarterly financial reports, reducing report generation time by 40%
- Collaborated within a multifaceted team of volunteers, encompassing data scientists, marketers, and event organizers, to optimize fundraising efforts for Riley Hospital for Children through data-driven strategies
- Spearheaded expansion to help PUDM become the largest student-run organization at Purdue University, recruiting over 1100 members and raising over \$650,000 in one year

## SKILLS

Python, SQL, R, SAS, Java, JavaScript, React.js, Swift, HTML/CSS, LaTeX, Git, Google Analytics, Jupyter Notebooks, Agile Methodologies, Scrum, Microsoft Office, Google Suite