

Vivek Chudasama

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EDUCATION

Purdue University, West Lafayette, IN
Bachelor of Science in Data Science and Bachelor of Science in Applied Statistics

August 2021 – May 2025

WORK EXPERIENCE

Undergraduate Teaching Assistant

August 2022 – Present

The Data Mine, Purdue University, West Lafayette, IN

- Conduct regular office hour sessions for introductory data science course, providing targeted support in Python, R, and SQL concepts, serving over 1,000 students yearly
- Design 16 homework assignments per semester focused on real-world data applications, improving students' understanding of data science techniques
- Assist in grading and provide feedback on assignments, helping students improve technical skills

Full-Stack Software Engineering Intern

July 2022 – August 2024

KeyByte LLC, West Lafayette, IN

- Integrated a Redis database into the React product's frontend infrastructure, improving data retrieval speed by 25% and enhancing user experience
- Used Python and JavaScript to analyze workload performance metrics, demonstrating product advantages in investor presentations
- Transitioned networking from TCP to HTTPS, improving data security and reducing system vulnerabilities by 30%
- Increased codebase efficiency by 30% through restructuring and optimizing frontend and backend components, resulting in faster load times and reduced debugging time

Data Science Intern

August 2022 – December 2022

Sandia National Laboratories, Albuquerque, NM (Remote)

- Developed flight tracking algorithms and data models to improve the accuracy and efficiency of aviation data analysis, leading to 15% increase in team tracking precision
- Analyzed large datasets on flight trajectories using Python and machine learning techniques, identifying patterns and enhancing real-time tracking
- Collaborated with a multidisciplinary team to design and implement data-driven solutions for national security research initiatives, contributing to improved operational workflows

Data Science Intern

August 2021 – May 2022

USAA, San Antonio, TX (Remote)

- Utilized Python and pandas to analyze customer behavior, influencing interest from potential new customers
- Developed predictive models that optimized marketing strategies, leading to improvement in new customer acquisition
- Collaborated with cross-functional teams to present data-driven insights and recommendations, resulting in more effective marketing campaigns

VOLUNTEER EXPERIENCE

Vice President of Finance

August 2021 – November 2024

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

- Leveraged Python and Excel for advanced data analysis, boosting sponsorship revenue to over \$20,000
- 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 \$691,000 during my tenure in 2024

TECHNICAL SKILLS

Languages: Python, SQL, R, Java, JavaScript, Swift, HTML/CSS, SAS

Data Science Libraries: Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, Apache Spark

Frameworks & Database Tools: React.js, LaTeX, Flask, MySQL, Redis, MongoDB

Developer Tools: UNIX, Git, Google Cloud Platform, Jupyter Notebooks, Agile Methodologies, Scrum, Microsoft Office, VSCode