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 – May 2025
The Data Mine, Purdue University, West Lafayette, IN
- Led weekly office hours and project support for 1,000+ students in Python, SQL, and R, covering workflows like dashboarding, data wrangling, and automation logic
- Designed real-world assignments using datasets on sales, health, and logistics to help students build intuition around BI dashboards, KPIs, and ML pipelines
- Reviewed 1,000+ submissions and coached students on everything from logic errors to explaining modeling decisions to non-technical audiences

Full-Stack Software Engineer   July 2022 – August 2024
KeyByte LLC, West Lafayette, IN
- Integrated Redis into a React-based web product to support real-time dashboard data, cutting latency by 25% and enabling snappier internal tools
- Used Python and JavaScript to analyze and visualize system metrics, building internal dashboards for executive team use in feature prioritization and performance tracking
- Migrated internal comms from TCP to HTTPS and cleaned up backend services, reducing downtime and enabling automation of internal health checks and alerts

Data Science Intern   August 2022 – December 2022
Sandia National Laboratories, Albuquerque, NM (Remote)
- Created aircraft optimization models and dashboards that identified flight path inefficiencies using pandas and Scikit-learn, supporting AI-aided mission decisions
- Analyzed terabytes of aviation telemetry using Python and SQL, identifying trends that reduced bottlenecks in critical airspace zones
- Partnered with defense engineers and analysts to refine predictive tools and integrate them into existing simulation and alert systems

Data Science Intern   August 2021 – May 2022
USAA, San Antonio, TX (Remote)
- Developed customer behavior dashboards and predictive models using pandas and Jupyter, surfacing insights that influenced acquisition strategies
- Queried and cleaned customer data using SQL and automated data ingestion pipelines to reduce redundancy in analytics workflows
- Presented analysis to sales and marketing teams, helping them optimize outreach strategies and test conversion-based hypotheses

VOLUNTEER EXPERIENCE

Vice President of Finance   August 2021 – November 2024
Purdue University Dance Marathon (PUDM), West Lafayette, IN
- Built automated sponsor reports with Python and Excel that supported quarterly reviews and revenue planning, cutting manual work by 40%
- Created internal dashboards to track donations and ROI on marketing efforts, influencing the strategy behind a $691,000 fundraising year

TECHNICAL SKILLS

Languages: Python, SQL, R, Java, JavaScript
Data & BI Tools: Pandas, NumPy, Jupyter, Matplotlib, Excel, Scikit-learn
Dashboards & Automation: Power BI, Google Sheets, Redis, Flask, Git, Agile
Other: NLP basics, AI/ML fundamentals, Visual Studio Code, Tableau (familiar), React