Diya Vinod

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Education

Colorado School of Mines, Golden, CO **Dec 2025**
Master of Science in Data Science GPA: 4.0

Colorado School of Mines, Golden, CO **Dec 2024**
Bachelor of Science in Computer Science with a focus in Data Science *cum laude* (GPA: 3.55)

- Faculty Choice Award, CMAPP Scholar, SWE Scholarship recipient

Skills

- Python, Java, C++, SQL, R, Git, pandas, scikit-learn, HTML/CSS, Dash, PowerBI, Microsoft Excel, LaTeX, MS Visual Studio Code, Eclipse, Jupyter Notebook, Linux
- Debugging and testing code, program design, algorithms, Agile software development, data structures
- Excellent analytical and problem-solving skills, fast learner, thrive in a team environment

Work Experience

Network Performance Intern **Jun 2024 - Aug 2024**
Verizon

- Combined multiple data sources and preprocessed the data using Python libraries like pandas. Using visualizations, made with Matplotlib, and various statistical techniques identified key predictors of a project's commit and spend. These key predictors were then used in creating a machine learning model.
- Developed a machine learning model in Jupyter Notebook using the Python library, scikit-learn, to help the Network team anticipate the remaining amount left to commit and spend given project status, determine project acceleration or deceleration, and ensure alignment with annual spending targets for a more strategic approach to budget management.
- Recognized as one of ten interns to receive the Intern Spotlight Award (out of 350+ interns) for exceptional performance and ability to take initiative.

Technology Operations and Quality Engineering Intern **May 2023 - Aug 2023**
Transamerica Corporation

- Created PowerBI visualizations of the IT Scorecard, which measures Technology's progress toward achieving its performance objectives, in order to assist executives in identifying areas of improvement.
- Leveraged a machine learning model to automate mapping thousands of test cases in qTest to business capabilities.

Projects

Rock Mountain Lab Rescue Merchandise Inventory Analyzer **Aug 2024 - Dec 2024**

- Worked in a team of three to build an interactive web application for a non-profit organization to help inform rescue volunteers of the most recent merchandise stock. Application is a dashboard consisting of visualizations, tables, and a predictive model coded with Python and the Dash framework.
- Developed, trained, and tested a machine learning model to forecast inventory trends, helping the rescue prepare for periods of high demand.
- Optimized the rescue's fund allocation by delivering real-time insights into merchandise stock and predicted inventory trends through the dashboard, reducing unnecessary costs by aligning purchases with anticipated demand.
- Described process, challenges, results and feedback through a twenty minute presentation to client, professors and other stakeholders.

Professional Activities

- Society of Women Engineers | Logistics Director
- Association of Computing Machinery - Women | Advertising and Membership Chair