

Aditi Manthripragada

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SUMMARY

Dynamic **Data Analyst** with expertise in creating insightful and visually appealing data visualizations. Proficient in **Python, SQL, and Tableau**, with hands-on experience in Streamlit, PySpark and Hadoop. Certified in Google Analytics and DataCamp's Data Analyst Professional Program.

SKILLS

Languages: Python, SQL, R, HTML, CSS, JavaScript, Git, Bash, JSON

Frameworks: TensorFlow, Pandas, Scikit, Seaborn, PyTorch, Flask, Next.js, GitHub, Vite, Tailwind CSS

Tools: Spark, Tableau, PowerBI, Microsoft Excel, Google Sheets, DB Browser, NoSQL, APIs, Llama

Skills: Critical Thinking, Problem Solving, Data Interpretation, Teamwork, Public Speaking, Research, Japanese

PROJECTS

What's in my CSV?: Exploratory Data Analytics | *Python, Scikit-learn, Streamlit, Shadcn* | [🔗](#) | [Article Link](#)

- Automated time-intensive EDA and cleaning tasks, **reducing analytics project timelines by 50–60%**.
- Simplified complex data analysis with a **no-code platform**, enabling advanced exploration through correlation matrices, distribution analysis, categorical profiling, and PCA.
- Enhanced data quality** by automating outlier detection, missing value imputation, and other preprocessing tasks, ensuring cleaner and more reliable datasets for analysis.

Berkshire Hathaway Investor Analysis | *Python, SQL, Power BI, API* | [🔗](#)

- Performed **end-to-end analysis**, collecting data from EDGAR filings, yfinance library and FRED API.
- Engineered collected data into a structured dataset, using SQL and PowerQuery for pre-processing and wrangling.
- Used findings to develop **actionable insights** and interactive dashboards to evaluate portfolio performance and risk exposure, which drive strategic decision-making for potential investors.

Tableau Dashboards | *Tableau, Python, Excel* | [🔗](#)

- Created dashboards showcasing **versatility across domains** ranging from entertainment to healthcare.
- Each dashboard offers **dynamic filters and drill-down capabilities** to cater to any niche seeking information.
- Clear, engaging visuals of impactful topics, with a keen awareness of **global trends and challenges**.

EXPERIENCE

Science and Engineering Research Board, VITC | **Project Intern** | [🔗](#)

Jan 2024 – May 2024

- Optimized vibrational energy harvesting performance of PVDF nano-composite films, achieving **130 % increase** in electrical potential by incorporating specific nano-fillers, as analyzed through performance data analytics.

Centre for Advanced Data Science, VITC | **Research Intern** | [🔗](#)

June 2021 – July 2021

- Achieved **91% accuracy** in predicting Bitcoin prices as measured by the LightGBM confusion matrix, by training a LightGBM model using the GBDT method on a Bitcoin dataset with a train-test ratio of 80-20.

EDUCATION

Vellore Institute of Technology

2020 – 2024

Mechanical Engineering, 8.6 CGPA | Chennai, India

- Developed machine learning models to predict solar still performance by analyzing variable conditions, improving **scalability and efficiency**.
- Taught OpenFOAM workshop with IIT Bombay, delivering effective instruction, enhancing participants' skills.
- Finalist in **HCL HACK IITK 2021 Cybersecurity** Startup Challenge, addressing genetic privacy of crops.

Indian Institute of Technology, Madras

2021 – Present

Online

- Analyzed **real sales data** and received an A Grade for providing valuable suggestions for improvement through data visualization and insights interpretation.
- Served as **house secretary**, establishing council, clubs, and informative websites for the benefit of student body.