

Aditi Manthripragada

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SUMMARY

Ambitious B.Tech. graduate in Mechanical Engineering with dual specialization in Data Science. Skilled in leveraging data-driven insights to optimize processes and solve complex, interdisciplinary problems. Adept at using statistical analysis, machine learning, and data visualization. Eager to apply my analytical expertise and passion for data in a challenging and dynamic environment.

EXPERIENCE

DST-SERB - Project Intern

Jan 2024 – May 2024

Chennai, India

- Performed experiments and used resulting data to evaluate foam properties with statistical analysis.
- Published conference proceedings in [Springer Link](#).

CADS, VIT Chennai - Research Intern

June 2021 – July 2021

Chennai, India

- Used knowledge graphs and machine learning to analyze cryptocurrency market patterns and volatility.
- Published paper in [i-PACT 2021 proceedings](#).

PROJECTS

Readr | *Python, SQL, Flask, Vue, Bootstrap, Redis, Celery*

- Designed and implemented core features, enabling librarians to manage sections, add books, and handle requests.
- Developed search functionality and integrated real-time request handling for users to access approved e-books.
- Architected a secure and scalable backend with Flask and JWT, optimizing performance with Redis caching and background job processing using Celery.

What's in my CSV? | *Python, Streamlit, Shadcn*

- Developed a web-based CSV analysis tool using Streamlit, enabling users to easily upload, visualize, and explore CSV data with automated insights, such as column data types, null counts, and top-ranked values.
- Implemented custom data visualizations with user-friendly interfaces, while offering a modern, responsive UI.

Lunch Debt Dashboard | *Tableau, Python, Excel*

- Scraped data from the Education Data Initiative website and performed cleaning and transformation.
- Created interactive visualizations in Tableau to effectively present insights.

EDUCATION

Vellore Institute of Technology

2020 – 2024

Chennai, India

- B. Tech in Mechanical Engineering. CGPA: 8.6
- 10 GPA in Capstone Project focusing on data cleaning, analysis and prediction of performance of a solar still.
- Conducted an OpenFOAM workshop in collaboration with IIT Bombay.
- Finalist in Cybersecurity Startup Challenge of HCL HACK IITK 2021.

Indian Institute of Technology, Madras

2021 – Present

Online

- Completed two diplomas, in Data Science and in Programming. Currently in the degree program.
- Served as a house secretary and addressed the qualifier orientation session as a keynote speaker.
- Secured A grade in hands-on Business Data Management project.

TECHNICAL SKILLS

Languages: Python, SQL, NoSQL, HTML, CSS, JavaScript, R, Git, C++, MATLAB, Java

Technical Skills: Full Stack Web Development, Machine Learning, Data Analysis, GitHub, Streamlit

Frameworks/ Tools: TensorFlow, Pandas, PowerBI, Tableau, Looker, Next.js, Vue.js, Flutter, SolidWorks

Certifications: Data Analysis with Python (freeCodeCamp), Google Analytics Certification(Google Skillshop), SQL Advanced (HackerRank), Data Analysis using Excel(Great Learning)

Other Skills: Public Speaking, Presentation, Teamwork, Problem Solving, Creative, Japanese