

Mohana Alapati

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SUMMARY

Results-driven Data Analyst with 3+ years of experience transforming raw data into strategic insights across higher education and telecom sectors. Proven ability to deliver automated dashboards, decision-making, increase operational efficiency using Python, SQL, Tableau, Power BI, and Spark.

TECHNICAL SKILLS

- **Languages & Tools:** Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn), R, PySpark, Shell Scripting, MySQL
- **Data Engineering & Big Data Tools:** Apache Spark, Databricks, Snowflake, Airflow, AWS (S3, Redshift, Lambda), GCP (BigQuery), Azure Data Factory
- **Data Visualization & BI:** Power BI, Tableau, Looker Studio, Excel (Pivot Tables), Plotly.
- **Databases:** MySQL, PostgreSQL, Microsoft SQL Server, BigQuery, MongoDB
- **Version Control & Collaboration:** Git, GitHub, JIRA, Confluence
- **Other Tools:** Jupyter Notebook, Google Sheets, VS Code, Postman

EXPERIENCE

Data Coordinator, Western Michigan University | Jun 2023 – Present

- Utilized Python and SQL to analyze over 10,000 event and traffic data, we were able to identify trends in room usage and increase it by 18%.
- Created interactive Power BI dashboards that eliminated six hours of weekly reporting effort by automating manual reports.
- Enhanced decision-making efficiency by providing actionable insights for FY2026 planning and budget forecasting.

Data Engineer, Netxcell | Jan 2020 – Oct 2022

- Python and Spark were used to optimize 20TB+ SQL data pipelines and ETL procedures, resulting in a 30% improvement in load performance.
- created Tableau KPI dashboards for executives, resulting in a 40% reduction in manual reporting cycles.
- In order to implement and manage scalable data solutions across several business divisions, I worked with cross-functional engineering teams.

PROJECTS

- **Program-of-Study Advisor:** Visualized student progress via Python, SQL & JS; adopted by 3 advisors, saving 15 min/session.
- **US Traffic Volume Analysis:** Analyzed highway sensor data using Python (Pandas, Seaborn) to identify congestion trends and inform city planning decisions.
- **Retail Sales Dashboard & Insights:** Designed a Power BI dashboard to analyze category-level trends and underperformance; received 95% feedback for clarity and impact.

EDUCATION

Master of Science in Data Science, Western Michigan University — April 2025

Machine Learning, Statistical Methods, Big Data Analytics, Data Engineering, Artificial Intelligence.

Bachelor of engineering in Computer Science, RMK College of Engineering, India — May 2022

Data Structures, Algorithms, DBMS, Operation Systems, Computer Networks, Compiler Design, AI.

CERTIFICATIONS

Databricks Certified Data Analyst Associate (2025), Databricks Generative AI Fundamentals (2025), Google Data Analytics Professional Certificate (2022), IBM Data Science Professional Certificate (2022), Tableau Data Visualization – Duke University (2022), Introduction to Statistics – Stanford University (2022), Microsoft Certified: Power BI Data Analyst Associate (2023)