Mohana Alapati

Data Analyst

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📇 SUMMARY

Results-driven Data Analyst with 4+ 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.

💼 EXPERIENCE

Western Michigan University, *Data Coordinator*   06/2023 – 09/2025
- Analyzed over 10,000 event and traffic data using SQL and Python through which increased rooms usage trend by 18%.
- Created interactive Power BI dashboards that eliminated 20% of weekly reporting effort.
- Decision making efficiency enhanced by 50% by providing actionable insights for FY2026 planning and budget forecasting.

Netxcell, *Jr Data Engineer*   01/2020 – 10/2022
- Optimized the process of capturing and analysing 20TB+ data by using Python, Spark, SQL , ETL piplines resulting in a 30% improvement in load balancing.
- Created Tableau KPI dashboards for executives, resulting in a 30% reduction of manual reporting cycles.
- Worked with cross fucntional teams to resolve the critical issues which inturn decreased the problem resolving time by 30%.

🎓 EDUCATION

Master of Science in Data Science, *Western Michigan University*   04/2025
Machine Learning, Statistical Methods, Big Data Analytics, Data Engineering, Artificial Intelligence.

Bachelor of engineering in Computer Science, *RMK College of Engineering, India*   05/2022
Data Structures, Algorithms, DBMS, Operation Systems, Computer Networks, Compiler Design, AI.

🧠 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

📑 CERTIFICATIONS

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

📂 PROJECTS

Parkinson's Disease Detection Using Spiral Images - SVM and CNN   10/2024 – 12/2024
- Designed a pipeline using CNN for feature extraction and SVM for classification, achieving 95% accuracy.
- Preprocessed spiral images with Gaussian filters, used GLCM for texture analysis, and leveraged data augmentation and hyperparameter tuning.

Diabetic Retinopathy Detection and Classification System using EfficientNet-B7 and Vision Transformer (ViT)   05/2024 – 09/2024
- Developed a Diabetic Retinopathy Prediction system using EfficientNet-B7 and Vision Transformer (ViT) for feature extraction and classification.
- Achieved 92% precision and 94% accuracy by enhancing preprocessing with CLAHE, data augmentation, and Bayesian Optimization.