Aravind Sai Anisetti
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Data Engineer | Data Scientist with 7+ years of experience building data pipelines, dashboards, and machine learning models for enterprise, government, and public use cases. Proven ability to automate data workflows, deliver stakeholder-ready visualizations, and develop scalable analytics in Python, R, SQL, Tableau, and AWS. Strong domain expertise in economic analytics, investment research, aviation, and operational metrics.

## PROFESSIONAL EXPERIENCE

**Data Scientist / Engineer – Federal Aviation Administration (FAA)**
**Karsun Solutions LLC, Washington, DC.**                                          **Mar 2021 – Present**

- Facilitated data discovery and requirement sessions with FAA business units to capture reporting and analytics needs, translating them into end-to-end data pipelines and dashboard solutions using AWS and Tableau.
- Led migration of 10+ TB of legacy aviation and operational data to AWS, architecting ETL workflows with Glue, Lambda, and Redshift to ensure scalable, governed, and performant data systems.
- Developed and maintained SQL- and Python-based transformation scripts to enable analytics and operational dashboards that informed strategic policy and compliance discussions at the executive level.
- Optimized existing data pipelines by implementing automated validation, metadata management, and performance tuning, resulting in a 20% improvement in data ingestion efficiency and reliability.

**Data Science Consultant – Nexus IT**                                          **Feb 2020 – Mar 2021**

- Built predictive models on AWS Sagemaker for credit derivatives forecasting using Python and boto3.
- Visualized cross-asset and macroeconomic trends using Tableau and R for institutional investment research.
- Created data lakes for research teams, improving data discoverability and collaboration by 30%.
- Improved ML accuracy through feature engineering, hyperparameter tuning, and model validation techniques.

**Data Engineer – Cisco & Kaiser Permanente**
**Kforce INC**                                          **Mar 2019 – Dec 2019**

- Designed time-series models for forecasting marketing ROI, reducing ad spend by 35%.
- Migrated campaign performance data from Oracle to Snowflake, accelerating dashboard loading times.
- Built Tableau dashboards to monitor security lifecycle KPIs, improving issue root cause analysis.

**Data Science Intern – USM Business Systems**                                          **Apr 2018 – Jan 2019**

- Evaluated production-level machine learning algorithms for scalability and optimization.
- Documented data pipelines, system architecture, and metadata for ongoing analytics projects.

## PROJECTS

**Mid-Cap Tech KPI Dashboard (Python + Tableau)**

- Built dashboard to analyze KPIs (Revenue Growth, R&D Intensity, Net Margin) across 20 AI, Cloud, and Cybersecurity firms.
- Engineered financial features using Python (yfinance, Pandas); created Tableau visuals for sector trends and investment storytelling.
- [Tableau Dashboard] | [GitHub Repo]

**Inflation Trend Dashboard (Virginia)**

- Analyzed 4 years of regional CPI data using YoY trends and rolling averages.
- Highlighted sector-specific inflation trends via interactive Tableau dashboards for public economic insight.
- [Tableau Dashboard] | [GitHub Repo]

## EDUCATION
- M.S., Engineering and Operations Management – University of New Haven, CT — Dec 2017
- Bachelor of Technology, Electronics & Communication Engineering – JNTU, India — May 2016

## CERTIFICATIONS
- AWS Certified Solutions Architect Associate – Aug 2023
- AWS Certified AI Practitioner – Jan 2025
- Tableau Desktop Specialist – Sep 2021
- Alteryx Designer Certification – Feb 2024

## TECHNICAL SKILLS

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|---|---|
| Languages | Python (Pandas, Scikit-learn, PySpark), R (Tidyverse, Caret), SQL (PostgreSQL, T-SQL), Bash |
| Reporting Tools | Tableau, Power BI, R Shiny, Alteryx, GGplot, Matplotlib, Seaborn, Jupyter |
| Databases | Microsoft SQL Server, Oracle, Google AdWords, AWS RDS |
| Big Data Tools | Spark, Hadoop, Glue, Kafka, Redshift, Snowflake, MongoDB, Starburst, Databricks, Airflow. |
| Machine Learning | Regression, Classification, NLP, XGBoost, Time-Series, Clustering, SHAP, Sagemaker, MLflow |
| Cloud & MLOps | AWS (S3, EC2, Lambda, Glue, SageMaker, RDS), Azure ML, Docker, GitHub Actions, Terraform |
| Collaboration | Agile, Jira, Git, Slack, Confluence, VS Code |