

Aravind Sai Anisetti

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Data Scientist | Data Engineer 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, digital media, aviation, and operational metrics.

PROFESSIONAL EXPERIENCE

Data Scientist – 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.
- Develop executive order's tracking using Power BI and present to FAA leadership.
- 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 and improving forecast accuracy by 12%
- 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%.
- optimizing digital marketing spend A/B testing on audience measurement and media analytics.
- 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

OnePlan AI — Intelligent Media Budget Optimizer [[Demo](#)] | [[GitHub Repo](#)]

- A single, explainable recommendation for reallocating media budget across TV, Streaming, YouTube, Display, and Social inspired from NBCUniversal's *One Platform Total Audience* system.

Mid-Cap Tech KPI Dashboard (Python + Tableau) [[Tableau Dashboard](#)] | [[GitHub Repo](#)]

- Built dashboard to analyze KPIs (Revenue Growth) across 20 AI, Cloud, and Cybersecurity firms.

Inflation Trend Dashboard (Virginia) [\[Tableau Dashboard\]](#) | [\[GitHub Repo\]](#)

- Highlighted sector-specific inflation trends via interactive Tableau dashboards for public economic insight.

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

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, Scikit-Learn, NLP, XGBoost, Time-Series, Clustering, SHAP, Sagemaker, MLflow, A/B testing.
Cloud & MLOps	AWS (S3, EC2, Lambda, Glue, SageMaker, RDS), Azure ML, Docker, GitHub Actions, Terraform
Collaboration	Agile, Jira, Git, Slack, Confluence, VS Code