Francis Mangala

Data Analyst | Government Programs | BI & Analytics Automation

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PROFESSIONAL SUMMARY

Data Analyst with 7+ years of experience supporting federal programs through advanced analytics, business intelligence, and data automation. Proven ability to translate complex datasets into actionable insights for leadership and cross-functional stakeholders. Strong background in Python, SQL, Tableau, and Power BI, with experience improving data quality, operational efficiency, and decision-making in mission-critical environments.

CORE SKILLS

Product & Business Analytics: Exploratory Data Analysis, Metric Definition & KPI Frameworks, Data-Driven Strategy & Insight Generation

Visualization & BI: Dashboard Design, Routine Report Automation, Data Visualization & Storytelling, Executive & Stakeholder Reporting

Data Management & Governance: ETL Processes, Data Cleaning & Validation, Data Quality Management, Metadata & Business Definitions, Workflow Automation,

Programming languages and Visualization tools: Python, SQL (CTEs, joins, aggregations, subqueries), R (tidyverse, ggplot2, dplyr), Tableau, Power BI, Tableau Prep , Plotly/Dash, Streamlit

Stakeholder Engagement: Federal Reporting, Leadership Briefings, Cross-Functional Collaboration

PROFESSIONAL EXPERIENCE

Data Analyst

General Dynamics Information Technology (GDIT) | Jan 2022 – Present

- Leverage Python, R, and SQL to analyze complex, high-volume datasets, identify trends, correlations, and performance drivers used to inform strategic and operational decisions.

- Design, automate, and maintain Tableau and Power BI dashboards supporting self-service analytics for senior stakeholders, reducing manual reporting effort and accelerating insight delivery.

- Build well-managed, reusable SQL data models and analytical datasets used across multiple reporting products and ad-hoc analyses.

- Drive data quality management by implementing validation checks, standardization rules, and monitoring processes, improving data reliability and stakeholder confidence.

- Utilize Palantir Pipeline Builder and Contour to support large-scale data integration, governance, and exploration workflows.

- Serve as product owner for multiple mission-critical reports (FOUO), overseeing metadata definitions, data integrity, access controls, and timely delivery to senior federal leadership.

Assistant, Corporate Relations
Air & Space Force Association | Dec 2020 – Dec 2021
- Managed and analyzed corporate and individual membership data using Salesforce and Excel, supporting accurate reporting and renewals.
- Cleaned, validated, and transformed datasets using Excel Power Query, improving reporting accuracy and consistency.
- Produced recurring performance metrics and executive-level reports supporting strategic planning and operational oversight.
- Supported documentation of data definitions and reporting processes.

Research Analyst
Morten Beyer & Agnew (Aviation & Aerospace Consulting) | Jun 2020 – Nov 2020
- Researched and analyzed aviation and airline performance data using multiple industry and financial sources.
- Cleaned, transformed, and analyzed large aviation datasets using Microsoft Excel and Power Query, improving data accuracy and usability.
- Updated and validated datasets covering 2,000+ aircraft, including registration, ownership, operator, and operational status.
- Documented data sources, business definitions, and transformations to support repeatable analysis.

SELECTED PROJECTS

World Population Analysis
Tools/Programming Language: Tableau
- Built interactive Tableau dashboards analyzing global population indicators from 2000–2023 to highlight long-term demographic trends.

Country Indicator Scatterplot Application
Tools/Programming Language: Python, Plotly/Dash
- Developed an interactive Plotly/Dash application to compare economic and social indicators across countries, enabling dynamic exploration of relationships between variables.

Freedom Index Indicators
Tools/Programming Language: Streamlit
- Developed a Streamlit application to analyze freedom index indicators by country and by region

EDUCATION

Master of Science in Data Science (Expected 2026)
University of Virginia

Certificate in Data Analytics (2021)
The George Washington University

Bachelor of Arts in International Relations & Economics (2014)
Grand Valley State University

LANGUAGES

English (Fluent) | French (Fluent)