

Katia Lopes-Gilbert

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PROFESSIONAL SUMMARY

Data analyst with six years of experience analyzing complex datasets with Python and SQL and generating actionable business insights to help teams innovate, deliver results, and maximize their potential. Adept at leading and collaborating with cross-functional teams, including operations, finance, and technology, to deliver strategic recommendations.

TECHNICAL SKILLS

Data Processing & Analysis: Microsoft Excel, pandas, SciPy, statsmodels, Jupyter Notebooks

Data Visualization: Tableau, Power BI, Streamlit, Matplotlib, Seaborn, Plotly

Programming & Databases: IDEs (VS Code, Atom), Python, SQL, MySQL, SQLite, postgres, MySQL Workbench, pgAdmin, DataGrip

Machine Learning Frameworks: Scikit-Learn, Imbalanced-Learn, NLTK

Version Control & Environment Management: Git, GitHub, Anaconda, venv

Other: Asana, Smartsheet, Jira, Confluence, M365, SharePoint, Google Suite, Miro, Mural, Agile Scrum

DATA SCIENCE PROJECTS

Predict Flight Cancellations: Cleaned and transformed a dataset of 7M flights from five sources. Designed metrics and machine learning models to predict flight cancellations with a recall of 99.99% using Python.

Predict Federal Funding: Programmed different regression models to predict federal funding for healthcare organizations with 70% accuracy.

UK Bank Customer Segmentation: Cleaned and analyzed 4,000 UK banking customer records and designed a Tableau dashboard to segment customers for improved customer engagement through personalized banking experiences.

Brew Master Sales: Developed a PostgreSQL database for synthetic company data. Automated data ingestion workflows and wrote SQL queries to generate Tableau executive reports.

WORK EXPERIENCE

Data Scientist Fellow – *Springboard* | Remote

Feb 2024 – Dec 2024

- Developed end-to-end ETL pipelines to clean, validate, and prepare data for analysis, working with datasets sourced from APIs, web scraping, and structured file formats like PDF, CSV, and JSON.
- Constructed complex SQL queries (window functions, CTEs, subqueries) to extract and transform data from relational databases, optimizing data processing workflows.
- Built machine learning models (e.g., random forest, logistic regression, AdaBoost, SVM, decision trees) in Python to solve predictive analytics problems, improving model accuracy through feature engineering and hyperparameter tuning.
- Optimized a Python script for calculating historical performance metrics, reducing runtime from 4 days to 20 minutes by implementing a window function for efficient row-wise calculations.
- Applied statistical methods (e.g., hypothesis testing, A/B testing) to validate insights, improve feature engineering, and support decision-making in project contexts.

Data Consultant – *KLK Consulting (Self-Employed)* | Seattle, WA

Mar 2021 – Dec 2024

- Conducted data wrangling, analysis, and visualization using Python and Excel to for 20+ large U.S. Census datasets to provide strategic business insights and actionable data summaries.
- Validated data quality and resolved discrepancies across disparate data sources prior to developing reporting tools in Excel and Power BI.

Sr. Program Manager – *Hennepin Healthcare* | Minneapolis, MN

Dec 2020 – Jun 2024

- Redesigned data model and built automated ETL pipelines, reducing report turnaround time from 10 days to 10 minutes.
- Designed and implemented a dashboard to track \$40M in program funding, which reduced reporting time from 5hr/week to 10 minutes, saving 250 hours per team member annually while improving reporting accuracy and efficiency.
- Designed and developed data collection workflows, a database, and data management practices to resolve data discrepancies for \$40M in program funding.
- Led 5 cross-functional project teams to align business strategy, stakeholder needs and funding requirements resulting in an average 300% increase in annual operating budgets.

Chief of Staff – *Adelante Healthcare* | Phoenix, AZ

Jun 2018 – Nov 2020

- Championed the implementation of Objectives and Key Results (OKR) and Key Performance Indicators (KPI) by leading 6 executives and 10 directors through a strategic planning session to increase alignment on mission, goals, and projects.
- Spearheaded the digital transformation of board member communication and collaboration systems, increasing satisfaction and achieving a 100% adoption rate.

EDUCATION

UC San Diego – *Bachelor of Science in Public Health (Biostatistics focus)*

Sep 2014 – Dec 2017

Coursework: Biostatistics, Linear Algebra, Project Management

ADDITIONAL INFORMATION

Certification: Udemy Tableau for Data Science (2024), Udacity Python & SQL for Data Analysis (2022), Udacity Data Analytics (2023), Scrum Product Owner (2022)

Interests: Adventure & landscape [photography](#), making playlists, trail running, backpacking, mountaineering, gardening

Languages: English, French, Spanish