

# Aniruddha Parthasarathy

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## SUMMARY

Certified data professional experienced in analytics, statistical modeling, and data engineering. Skilled at building experimentation frameworks, adaptive visualizations, and delivering actionable insights from complex, large-scale datasets to stakeholders. Proven success collaborating cross-functionally to drive data-driven business decisions in clean energy, transit, and biomechanics. Eager to leverage quantitative techniques along with modern data workstreams to deliver innovative, scalable solutions.

## TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, R, JavaScript, Tailwind CSS, HTML
- **Data Tools & Visualization:** Tableau, Power BI, D3.js, Excel, Alteryx, Jupyter Notebook, Matplotlib, Seaborn, dbt, DuckDB
- **Data Engineering & Cloud:** RAG, Airflow, Docker, LLMs, Google Cloud Platform, Supabase, VectorDB
- **Web & Development:** Node.js, React.js, Git, REST APIs, Lovable, SharePoint

## CERTIFICATIONS AND PUBLICATIONS

- **Foundations of Data Science:** Google (Nov 2025)
- **SQL Gold Badge:** HackerRank (Jan 2026)
- **Go Beyond the Numbers - Translate Data into Insights:** Google (in progress, expected Jan 2026)
- **Forecasting a gait cycle parameter region to enable optimal FES triggering:** Parthasarathy, A., et al. (2020). IFAC-PapersOnLine

## WORK EXPERIENCE

### Dreamline AI

Jul 2025 - Present

#### Data Analyst

Remote (US)

- Deployed an NLU-powered chatbot using **Pinecone Assistant's** framework and **o3-mini** for semantic Q&A over internal documents.
- Developed a **Python** scraper and led a five-person team to extract and process 750+ active funding programs to populate non-profit's database.
- Built the database schema on **PostgreSQL** via **Supabase** in the back-end, enabling seamless data access across three key user groups.
- Designed an adaptable product page on **Lovable** and documented data flows to streamline organization's clean energy solutions platform.

### Metropolitan Transportation Authority

Sep 2024 - Dec 2024

#### Data Analyst Aide - NYC Transit HQ

New York City, NY

- Analyzed crime and ridership from open data, employing the PACE strategy to investigate their relationship for subway safety planning.
- Processed 12M records with **Python** fuzzy matching to develop **Power BI** dashboards exposing 2.97 daily Grand Larceny complaints.
- Applied statistical thresholding for proactive detection of ridership anomaly spikes, flagging 6.98% of non-holiday complaint days.
- Prepared **SharePoint** blog posts on global AI trends, and ad hoc reports for stakeholders, including insights about a \$68.4B capital plan.

### iMOV Motion Tech

Aug 2018 - Dec 2020

#### Data Scientist

Bengaluru, India

- Collaborated with a hospital to predict heel-to-ground contacts for rehab devices in **R**, processing 2.7M datapoints in **Pandas** for data integrity.
- Built an ARIMA time series model in **MATLAB** with 79.76% forecasting accuracy after cross-validation, regularization and bootstrapping.

## KEY PROJECTS

### Impact of Transit Crime on Ridership | [Power BI](#), [Pandas](#), [NumPy](#), [Scikit-learn](#), [RapidFuzz](#), [Socrata API](#)

- Delivered an anomaly detection model investigating 6 months of crime complaints and hourly ridership to enhance security strategies.

### NYC Real Estate ELT Pipeline | [Compute Engine](#), [FastAPI](#), [Docker](#), [Airflow](#), [dbt](#), [DuckDB](#), [Gemini](#), [BigQuery](#), [React](#)

- Built a pipeline on GCP for vector search on 500k+ properties with BigQuery governance, Airflow orchestration, and Docker containers.

### Trend Analysis of a Century of Art Acquisitions | [Pandas](#), [SciPy](#), [NumPy](#), [Excel](#), [D3.js](#)

- Analyzed 140k+ MoMA art acquisition data with f-tests, t-tests and chi-squared tests to uncover gender representation trends across disciplines.

### Billboard Analysis in the Streaming Era | [Tableau](#)

- Designed a Tableau dashboard analyzing streaming trends and comparing artist success in making hit singles vs full albums over a decade.

### Time Series Analysis of Argentina at the 2022 Soccer World Cup | [MySQL](#), [Statsmodels](#), [Matplotlib](#), [Seaborn](#), [D3.js](#)

- Derived 5 actionable insights via multivariate analyses, uncovering patterns like Messi improving the probability of scoring by 17% alone

## EDUCATION

### City University of New York – The Graduate Center

Aug 2023 - May 2025

#### Master of Science in Data Analysis and Visualization (GPA: 4.0)

New York City, NY

- **Coursework:** Statistics for Data Analysis, Visualization and Design, Data Ethics

### New York University – Tandon School of Engineering

Feb 2021 - Jan 2023

#### Master of Science in Electrical Engineering (27/30 credits completed)

New York City, NY

- **Coursework:** Probability and Stochastic Processes, Organizational Behavior, Systems Engineering