

# 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 communicating actionable insights from complex, large-scale datasets to stakeholders. Proven success collaborating cross-functionally to drive data-driven business decisions in transit, clean energy, and biomechanics. Eager to leverage quantitative analysis and modern data solutions to support product initiatives for user engagement.

## TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, R, JavaScript, HTML, Tailwind CSS, C++
- **Data Tools & Visualization:** Tableau, Power BI, D3.js, Excel, Alteryx, dbt, DuckDB, MATLAB
- **Data Engineering & Cloud:** RAG, Airflow, Docker, Redis, LLMs, Google Cloud Platform, BigQuery, Supabase, Pinecone
- **Web & Development:** Node.js, React.js, p5.js, REST APIs, Lovable, SharePoint

## EXPERIENCE

### Dreamline AI

Jul 2025 - Present

Data Engineer

Remote (US)

- Developed a robust **Python** scraper (**BeautifulSoup**, **urllib**) extracting 750+ incentive links to populate non-profit's database.
- Designed a high converting product landing page on **Lovable** to streamline organization's clean energy solutions platform.
- Built the database schema on **PostgreSQL** via **Supabase**, integrating data and enabling seamless access to key three user groups.
- Sourced client leads from **Apollo** and managed email outreach to enhance product sign-ups for eco-friendly upgrades.

### Metropolitan Transportation Authority

Sep 2024 - Dec 2024

Data Analyst Aide - NYC Transit HQ

New York City, NY

- Analyzed crime and ridership from open data; validated complaint volume's negligible impact on ridership via hypothesis testing.
- Processed 12M records with **Python** fuzzy matching to develop **Power BI** dashboards exposing 2.97 daily Grand Larceny complaints.
- Applied statistical thresholding to detect ridership anomaly spikes for safety planning, flagging 9.56% of high complaint days.
- Prepared **SharePoint** blog posts on AI, and ad hoc reports to synthesize insights for stakeholders, including a \$68.4B capital plan.

### iMOV Motion Tech

Aug 2018 - Dec 2020

Data Scientist

Bengaluru, India

- Simulated gait data and predicted heel contacts for rehab devices in **R**, processing 2.7M datapoints in **Pandas** to ensure data integrity.
- Built a time series model in **MATLAB** with 79.76% forecasting accuracy, resulting in first-author international publication.

## 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.

### Data Analysis of Argentina at the 2022 Soccer World Cup (Capstone) | [MySQL](#), [Pandas](#), [NumPy](#), [D3.js](#)

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

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

- Analyzed 140k+ MoMA art acquisition data with hypothesis tests to uncover gender representation trends across disciplines.

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

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

### NYC Real Estate ELT Pipeline | [Docker](#), [Airflow](#), [dbt](#), [DuckDB](#), [Pinecone](#), [LLM](#), [BigQuery](#), [FastAPI](#), [React](#)

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

## EDUCATION

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

Aug 2023 - May 2025

Master of Science, Data Analysis and Visualization

New York City, NY

- **GPA:** 4.0
- **Coursework:** Statistics for Data Analysis, Visualization and Design, Interactive Data Visualization

### New York University – Tandon School of Engineering

Feb 2021 - Jan 2023

Master of Science, Electrical Engineering

New York City, NY

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

## CERTIFICATIONS

- **Foundations of Data Science:** Google – Nov 2025