

ANIRUDDHA PARTHASARATHY

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SUMMARY

Data specialist with a Master's degree and hands-on experience in Python, SQL, Excel, Power BI, Tableau, Airflow & GenAI.

EXPERIENCE

The Metropolitan Transportation Authority

Sep 2024 - Dec 2024

Data Analyst Aide - NYC Transit HQ

New York City, NY

- Analyzed trends in subway crime and ridership using open **API** data to enhance security strategies. Validated through hypothesis testing that complaint volume does not significantly affect ridership.
- Aggregated 12 million records using **Python** to deliver interactive crime distribution dashboards and decomposition trees in **Power BI**, revealing major patterns including a daily average of 2.97 Grand Larceny complaints.
- Deployed a statistical thresholding model in **Python** to identify anomalies, flagging 9.56% of days with abnormal daily ridership at stations reporting high complaint volumes.
- Authored **SharePoint** blog posts on Generative AI and Deepfake technologies, and prepared ad hoc reports on key discussions to synthesize insights for stakeholders, including a \$68.4 billion Capital Plan.

New York University

Jan 2022 - Dec 2022

Data Analyst

New York City, NY

- Automated error-checking using the **Selenium** and **Openpyxl** libraries in **Python**, reducing data cleaning time by 75% and enabling scalable performance metrics reporting.
- Managed NYU's Data Warehouse Plus (**Workday**) and Oracle **PeopleSoft** CRM, leveraging **SQL** queries and **Excel** (VLOOKUP, Pivot Tables) to analyze 10,000+ data points for students, HR, and finances.

iMOV Motion Tech Pvt Ltd (Defunct)

Aug 2018 - Dec 2020

Data Analyst, Research Associate

Bengaluru, India

- Collaborated with a hospital to simulate gait data and forecast heel-to-ground contact in rehabilitation devices, processing 2.7 million datapoints using **Pandas** to ensure data quality and sensor smoothing.
- Developed a second-order Box-Jenkins model in **Matlab** to forecast those contacts with 79.76% accuracy, leading to first-author publication in an international journal.

Dreamline AI

Jul 2025 - Present

Data Analyst

Remote (US)

- Performing web-scraping using **BeautifulSoup** and **Selenium** libraries to interpret data for streamlining the funding and management of clean energy projects in Florida and Ohio.
- Supporting diagnostic and predictive analytics by leveraging **Excel**, **MySQL** and **Python**.

PROJECTS

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

- Delivered a story with five actionable insights using JSON data stored in **MySQL**, analyzed in **Python** and dynamically visualized with **D3.js**. Identified patterns such as Messi increasing the team's scoring probability by 17% alone.

Real Estate Data Pipeline | [Airflow](#), [dbt](#), [DuckDB SQL](#), [Scikit-learn](#), [API](#), [Gemini](#), [Docker](#), [GCP](#), [React.js](#), [RAG](#)

- Built an automated **Airflow** pipeline on 500k+ NYC property records using **dbt** + **DuckDB**, and deployed an **LLM**-based Q&A app on it with **Docker**, **FastAPI** and **React** on **GCP**, returning answers to queries within 30 seconds on average.

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

- Explored weekly streaming charts to build a user-controlled dashboard of pop-music trends in the last decade using **Tableau** and presented the breakdown of success for different artists in making songs vs albums.

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:** Visualization and Design, Interactive Data Visualization, Data Analysis Statistics

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

Ramaiah Institute of Technology

Aug 2014 - Jun 2018

Bachelor of Engineering, Telecommunication Engineering

Bengaluru, India

TECHNICAL SKILLS

- Tools:** Tableau, Power BI, Excel, dbt, DuckDB, Airflow, Docker, GCP, React, D3, SharePoint, Sheets, Matlab, Office, Word
- Languages:** Python, SQL, R, JavaScript, HTML, CSS, C, C++