

ANIRUDDHA PARTHASARATHY

👤 Portfolio 📍 NYC 📞 347-798-7535 ✉ anpa6876@gmail.com 🔗 [linkedin.com/in/ani-partha](https://www.linkedin.com/in/ani-partha) 🐙 github.com/a-partha
Data specialist with a Master's degree and hands-on experience in Excel, Tableau, Power BI, Python, MySQL and Gen AI.

EXPERIENCE

The Metropolitan Transportation Authority | Python, Power BI, SharePoint

Sept 2024 – Dec 2024

Data Analyst Graduate 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 reports on key discussions to synthesize insights for senior leadership, including a \$68.4 billion Capital Plan.

New York University | Python, MySQL, Excel

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 | Python, Matlab

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 a 2.7 million-point dataset using **Pandas** to ensure data quality and sensor smoothing.
- Developed a second-order Box-Jenkins model in **Matlab** to forecast those contacts 30 ms ahead with 79.76% accuracy, leading to first-author publication in an international journal.

PROJECTS

Data Analysis of Argentina at the 2022 Soccer World Cup | MySQL, Python, D3.js, Gen AI

- 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%.

Interactive Data Visualization of NYC's Museum of Modern Art | Python, Excel, D3.js

- Analyzed a century of artworks using **Pandas** and visualized trends with **D3.js**, employing statistical analyses to generate insights like male artists' prevalence in Architecture & Design, while non-male artists dominated Drawings & Prints.

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.

Weight Training Analytics | Python, Tableau

- Cleaned and reshaped my workout logs using **Pandas** and visualized the progress per muscle group in **Tableau**. Identified a 5% reduction in body weight and improved muscle definition in 10 months.

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

Relevant Courses: Data Analysis Statistics, Visualization and Design, Interactive Data Visualization

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

Relevant Courses: Probability and Stochastic Processes, Organizational Behavior, Systems Engineering

M.S Ramaiah Institute of Technology

Aug 2014 – Jun 2018

Bachelor of Engineering in Telecommunication Engineering

Bengaluru, India

TECHNICAL SKILLS

Tools: Tableau, MySQL, Power BI, Excel, PowerPoint, Word, SharePoint, D3.js, p5.js, Snowflake, Sheets, Matlab, Simulink

Languages: Python, SQL, R, JavaScript, HTML, CSS, C, C++