Aniruddha Parthasarathy

👤 Portfolio 📍 NYC 📞 347-798-7535 ✉ anpa6876@gmail.com 💼 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 GenAI.

EXPERIENCE

The Metropolitan Transportation Authority | *Python, Power BI, SharePoint* **Sept 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.

iMOV Motion Tech Pvt Ltd (Defunct) | *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 with 79.76% accuracy, leading to first-author publication in an international journal.

Dreamline AI | *Python, Excel, MySQL* **July 2025 – Present**
Data Analyst *Remote*
- Performing web-scraping using **BeautifulSoup** and **Selenium** libraries to interpret data for streamlining the funding and management of America's clean energy projects.
- Supporting diagnostic and predictive analytics by leveraging **Excel(VLOOKUP, Pivot Tables), MySQL** and **Python**.

PROJECTS

Data Analysis of Argentina at the 2022 Soccer World Cup | *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%.

Gait Analysis for Rehabilitation | *Python, Matlab, Excel*
- Conducted predictive analysis on patient gait data to support rehabilitation device development, achieving ground-contact forecasts with 30-millisecond precision.

Interactive Data Visualization of NYC's Museum of Modern Art | *Python, Excel, D3.js*
- Analyzed and visualized trends in artworks acquired since 1920 with **Pandas** and **D3.js**, employing statistical methods to generate gender-based insights like male artists' prevalence in the Architecture & Design department.

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*
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, SharePoint, D3.js, p5.js, Snowflake, Sheets, Matlab, Simulink, PowerPoint, Word
Languages: Python, SQL, R, JavaScript, HTML, CSS, C, C++