Aniruddha Parthasarathy

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

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 (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 (US)*
- 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%.

Real Estate Legal Data Pipeline | *Python, dbt, DuckDB, RAG, Scikit-learn, Gemini LLM*
- Built an ELT pipeline on NYC property records using **dbt** and **DuckDB**; engineered natural-language summaries, embedded them with **TF-IDF**, and deployed **RAG** workflow with vector search and **LLM**-based legal Q&A.

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, Power BI, MySQL, Excel, dbt, DuckDB, SharePoint, D3.js, p5.js, Snowflake, Sheets, Matlab, Office, Word
Languages: Python, SQL, R, JavaScript, HTML, CSS, C, C++