Aniruddha Parthasarathy

NYC | 3477987535 | anpa6876@gmail.com | linkedin.com/in/ani-partha | github.com/a-partha | Portfolio

SUMMARY

Data Professional with a Master's degree (4.0 GPA), skilled in statistics, Python, SQL, Excel, data engineering, visualization, business intelligence, MLOps. Expert in delivering actionable insights and driving strategic decisions via data quality and AI-powered analytics.

EXPERIENCE

Dreamline AI | *Data Analyst*   **Jul 2025 - Present**
- Built a **Python** web scraping pipeline (BeautifulSoup, urllib libraries) to extract and structure 32 Florida clean energy policy entries, and catalogued 60+ associated regulatory links to facilitate detailed landscape mapping for funding and strategic planning.
- Conducted comprehensive regulatory research on 6 incentive categories and 3 stakeholder groups, organizing data to support informed strategic initiatives for non-profit clean energy initiatives.

The Metropolitan Transportation Authority | *Data Analyst Aide - NYC Transit HQ*   **Sep 2024 - Dec 2024**
- 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.
- Implemented a **Python**-based statistical thresholding model to detect anomalies, flagging 9.56% of days with unusual ridership at high complaint stations, supporting data-driven security resource allocation and improving passenger safety.
- Authored comprehensive **SharePoint** blog posts on **Generative AI** and produced ad hoc reports detailing key discussions to synthesize insights for stakeholders, including a $68.4 billion Capital Plan.

New York University | *Data Analyst*   **Jan 2022 - Dec 2022**
- Automated error-checking processes for institutional data using Selenium .and Openpyxl libraries in **Python**, reducing data cleaning time by 75% and ensuring accurate analytical reporting with robust data governance for administrative decision-making.
- Managed enterprise-level systems (**Workday**, **PeopleSoft**), employing **SQL** queries and advanced **Excel** techniques (VLOOKUP, Pivot Tables), to streamline data workflows and enable effective cross-functional collaboration.

iMOV Motion Tech | *Data Analyst, Research Associate*   **Aug 2018 - Dec 2020**
- 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 maintain data integrity and quality with strict validation standards.
- 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.

PROJECTS

Real Estate ELT Pipeline | Airflow, dbt, DuckDB, scikit-learn, FastAPI, Gemini, Docker, GCP, React.js, RAG
- Deployed a scalable microservices-based web app with **LLM** integration on **GCP**, containerizing a full-stack solution with **Docker** and using **Redis** for distributed task queuing to deliver **TF-IDF**-based **vector search** over 500k+ NYC property records via **REST API**.

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.

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

TECHNICAL SKILLS

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