

SANJANA GUPTA

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PROFESSIONAL SUMMARY

- **Data Scientist** (1+ years) expertise in **Python, SQL, Excel, Power BI**, and **Machine Learning**.
- Automated **ETL pipelines**, built Power BI dashboards for **50+ clients**, & led award-winning AI hackathon teams.
- Skilled in **data analysis, machine learning, business intelligence**, data visualization, & mentoring graduate analysts.

EDUCATION

Stevens Institute of Technology <i>Master's, Data Science, GPA 3.9/4.0</i>	Hoboken, NJ Aug 2023 – May 2025
Ramrao Adik Institute of Technology <i>Bachelor's, Information Technology, GPA 3.8/4.0</i>	Mumbai, India Aug 2019 – May 2023

TECHNICAL SKILLS

Languages & Databases | Python, R, SQL, MongoDB, C/C++, JavaScript
Tools | Power BI, Tableau, Excel, AWS (EC2, S3, Lambda), Flask, GitHub, Hadoop, Apache Spark
Frameworks & Libraries | Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Keras, XGBoost, Hugging Face Transformers
Statistics | A/B Testing, Hypothesis Testing, Regression Analysis, Time Series Analysis, Probability, Calculus
ML & AI | Supervised & Unsupervised Learning, Deep Learning, NLP, Reinforcement Learning, Computer Vision

PROFESSIONAL EXPERIENCE

Stevens Institute of Technology <i>Graduate Assistant – Civil, Environmental and Ocean Engineering Department</i>	Hoboken, NJ Jan 2025 – May 2025
<ul style="list-style-type: none">Directed a research initiative on 10+ years of Lake Hopatcong water quality data, applying time series analysis, trend detection, and multivariate statistical modeling to evaluate environmental health and sustainability.Led 40+ office hours for 150+ students, mentoring best practices in statistics and data analysis using Python, R, SQL.	
OM Enterprises <i>Data Scientist</i>	Mumbai, India Jun 2022 – Jun 2023
<ul style="list-style-type: none">Orchestrated the integration of multi-warehouse datasets for 50+ clients using Python, enhancing data consistency and reducing manual reconciliation errors by 95%, enhancing operational reliability across projects.Automated ETL pipelines with Python and SQL to consolidate and transform warehouse and procurement data, generating interactive dashboards that accelerated reporting and decision-making by 60%.Analyzed 100K+ SQL records to optimize resource allocation and project efficiency, using Excel & Power BI.	
D.Y. Patil University <i>Summer Intern</i>	Mumbai, India Jun 2021 – Oct 2021
<ul style="list-style-type: none">Developed a full-stack learning management system in Python, SQL, and Flask; served 2000+ users with features like forums, meetups, and submission tracking; increased user engagement by 100%.Integrated admin dashboards using Power BI for metrics like course completion, progress, grades, login activity, etc.	

HIGHLIGHT PROJECTS

Customer Segmentation for Targeted Marketing [Link](#)

- Processed transactional datasets with **Pandas** and **NumPy**, handling missing values, duplicates, and outliers.
- Segmented customers via **K-Means clustering** (Python, **scikit-learn**) using **RFM** metrics to identify clusters.
- Optimized **marketing strategies** by identifying high-value customers, behavioral patterns, and regional trends.

Time Series Forecasting – Bitcoin Prices (Non-Seasonal data) & Airline Passenger Traffic (Seasonal data) [Link](#)

- Applied the **Box-Jenkins** methodology to model and forecast **ARIMA** and **SARIMA** datasets.
- Implemented ARIMA(0,1,0) for Bitcoin price prediction using daily aggregated OHLCV data; handled missing values, conducted **ADF stationarity tests**, and validated results with **Ljung-Box diagnostics**.
- Developed SARIMA(0,1,1)(0,1,1)[12] for airline passenger traffic, applying **log transformation** and seasonal differencing to capture **variance** and seasonal patterns with **89% accuracy**.

ACHIEVEMENTS & LEADERSHIP

- **Choice Award** – SurgiTech (**Rutgers HealthHack 2024**) | Automated OR scheduling
- **Data Migration Assistant** – Stevens Institute of Technology | Contentful, Power BI, JavaScript, HTML, CSS
- **Hackathon Team Lead** – NYU, Rutgers, Stevens | Multiple MVPs delivered in under 48 hours
- **Graduate Peer Leader** – Graduate Student Life at Stevens Institute of Technology