

Karthik Sivaraman Iyer

DATA ANALYST

Washington, DC | karthikiyer365@gmail.com | +1 (202)713-1699 | [linkedin.com/in/kiyer8](https://www.linkedin.com/in/kiyer8)

EDUCATION

Master of Science in Data Analytics (GPA: 3.68) George Washington University, School of Engineering & Applied Science <ul style="list-style-type: none">Coursework: <i>Statistics, Qualitative Analysis, Quantitative Analysis, Data Manipulation, Data Pipelines, NLP.</i>	Washington, DC, USA August 2023 - May 2025
Bachelor of Engineering in Computer Engineering (GPA: 3.6) University of Mumbai <ul style="list-style-type: none">Coursework: <i>Image Processing, Relational Database Management, Website Development, Data Structure and Algorithms.</i>	Mumbai, MH, India August 2018 - May 2022

SKILLS

Programming Language	Python, SQL, R, C, HTML, CSS, JavaScript.
Data Management	PostgreSQL, MySQL, MongoDB, Spark.
Data Visualization	Tableau, Power BI, Microsoft Excel, SAS, Minitab.
Certifications	Google Analytics - GA4, Azure machine learning pipelines.
Cloud Platform	AWS (EC2, IAM, S3), GCP (SQL, Databricks, Looker Studio, Docker).

EXPERIENCE

Student Assistant – Systems Administration George Washington University <ul style="list-style-type: none">Assisted students and faculty for MacOS and Windows system setups for 10+ applications, ensuring smooth and transparent communication and achieving customer satisfaction rate of 90%.Supported inventory audits and demand forecasting through BMC Helix, ensuring 89% operational success.Resolved 30+ tickets and provided team assistance, ensuring 97% resolution rate of software issues.	Washington, DC, USA August 2024 - Present
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------

Teaching Assistant GWU – School of Business <ul style="list-style-type: none">Engineered an auto-grading system leveraging Python, NLP, BERT and Excel, saving 10+ hours per week for faculty.Collaborated with 3 faculty members to improve the grading algorithm resulting in a 25% improvement in consistency and accuracy.Reduced evaluation time by 60% by centralizing and streamlining the grading process for a total of 400+ assignments and quizzes.	Washington, DC, USA September 2024 – December 2024
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------

Financial Analyst Intern DPSY & Associates <ul style="list-style-type: none">Analyzed \$85 bn+ diamond market, identifying seasonal inventory and product markups(e.g. 28% off-season to 37% in-season), recommending strategic decisions for optimized pricing model and inventory.Streamlined data reconciliation by building Excel templates with VLOOKUP, Pivot Tables and Macros cutting manual effort and improving analysis time by 25%.Consulted on 24-month audit reports for LMS system identifying 20 liability cases and compliance discrepancy.Collaborated of 10+ PowerPoint and Excel reports for 3 clients, ensuring smooth communication and clear delivery of insights.Built ETL pipelines using SQL in SSAS framework for systems audit, ensuring data integrity and compliance for 5,000,000+ accounts.	Mumbai, MH, India April 2023 - June 2023
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------

TECHNICAL PROJECTS

Customer Review Analysis – YELP <ul style="list-style-type: none">Automated data ingestion of 10M+ data points by developing 5+ Databricks pipelines, reducing computational time by 15 hours.Utilized Python libraries for Spark, SQL and implemented AFINN based sentiment analysis across 7,000,000 reviews, discovering inconsistency between rating and review sentiment.	January 2024 - June 2024
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------

Audio Similarity based Artist Recommendation – Research <ul style="list-style-type: none">Developed BS4 and Regex-based web-scraping to convert JSON data to Pandas Dataframe generating weekly data of 20,000+ artists.Automated the extraction of WAV files through YouTube and performed dimensionality reduction PCA, T-SNE and UMAP for 20 MFCC.Implemented classification algorithm using GTZAN and MFCC, uncovering SVC achieves 74% accuracy with AUC of 97%.	March 2024 - June 2024
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------

Drug User Classification - Crime Data Analysis <ul style="list-style-type: none">Performed data cleaning and EDA using Pandas and NumPy and performed PCA to identify 6 socio-economic variables for Random Forest and Logistic Regression Model, with the Logistic Regression model achieving 70% recall value.Applied Categorical Encoding, log transformations and defined 2 interaction terms, leading to a 10% improvement in recall value.	October 2023 – December 2023
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------

Train Scheduling Analysis <ul style="list-style-type: none">Utilized MySQL, and MongoDB to conduct real-time data analysis on RDBMS using train-to-ticket ratio, uncovering a 20% shortfall of trains during peak hours.Implemented GCP for better data management and generated 2+ dynamic Tableau dashboard for data-driven insights.	August 2021 – December 2021
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------