

Karthik Sivaraman Iyer

DATA ANALYST

Arlington, VA | 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>Probabilistic Analysis, Quantitative Analysis, Data Wrangling, 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, Matplotlib, Plotly.js, Dash, Seaborn.
Certifications	Google Analytics (GA4 Certified), Azure ML 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, Windows and Linux systems troubleshooting 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 – Probability, Decision Making with Data George Washington University <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.Conducted weekly 3-hour student interaction sessions, simplifying complex concepts for student understanding.	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

Audio Similarity based Artist Recommendation – Research <ul style="list-style-type: none">Developed BS4 and Regex-based web-scraping to convert NoSQL data to Pandas Dataframe generating weekly data of 20,000+ artists.Automated the extraction of WAV files and performed Principal Component Analysis achieving for 20 audio features(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
Soccer Player Data Dashboard <ul style="list-style-type: none">Evaluated 100,000 player across 5+ season for 22 attributes and identified 4 KPIs to evaluate player performance.Hosted a dynamic dashboard using Dash and Plotly for Time Series Analysis of performance enabling comparative player evaluation.Collated 20+ visualizations with interpretations into a comprehensive report outlining the insights gathered from the EDA.	January 2023 - May 2023