Karthik Sivaraman Iyer

karthikiyer365@gmail.com | +1 (202)713-1699 | www.linkedin.com/in/kiyer8

EDUCATION

The George Washington University, School of Engineering & Applied Science   **Washington, DC, USA**
Master of Science in Data Analytics   **May 2025**
- Relevant Coursework: Statistical Modelling, Data Mining, Machine Learning, Big Data, Data Visualization, Regression Analysis.
- Current GPA: 3.67

University of Mumbai   **Mumbai, MH, India**
Bachelor of Engineering in Computer Engineering   **May 2022**
- Relevant Coursework: Image Processing, Database Management, ERP Systems, Natural Language Processing, Website Development.
- GPA: 3.50

TECHNICAL SKILLS

- Programming Languages: Python (NumPy, Pandas, Matplotlib, sci-kit learn, Plotly, OpenCV), SQL, C, C++, R, PHP.
- Software: MySQL, Tableau, Databricks, Microsoft Office Suite, SEO, Kaggle, AWS, Machine Learning, MongoDB, Minitab.

TECHNICAL PROJECTS

Project Lead, Google Play Store Analysis   **October 2023 – December 2023**
- Tracked and analyzed KPIs for app performance, providing actionable recommendations for developers.
- Utilized advanced data analytics techniques to extract meaningful insights based on data from 2.5mn+ android applications.

Project Lead, Crime Data Analysis   **October 2023 – December 2023**
- Developed a robust linear regression model with an R-squared value of 77%, demonstrating strong predictive accuracy in forecasting crime rates.
- Applied statistical modelling and mathematical analysis to interpret and communicate complex findings.

Team Member, Government employee compensation plan analysis   **October 2023 – December 2023**
- Ensured the secure and efficient retrieval of data, handling authentication and error handling in the API requests.
- Conducted EDA and time series analysis to gain insight into 8000+ employees' compensation trends from 2018 – 2023.

Editor-in-Chief, Technozine (Annual Magazine)
- Demonstrated strong leadership skills by mentoring team members, fostering talent development, and encouraging a passion for journalistic excellence.
- Oversaw the entire publication process, from content creation and editing to layout design and final production, ensuring a cohesive and engaging magazine reflective of the organization's mission and vision.

Lead Analyst, Sports Analytics - Player market value analysis   **August 2021 – April 2022**
- Designed software to analyze 7 years of data with 25,000+ data points using Python (NumPy, Pandas) and Tableau dashboard.
- Coordinated with 2 members to develop a Multivariate Linear Regression model for analysis, and determined model metrics, securing 97% accuracy across 22 dynamic attributes.

Co-Lead Developer, Data Autocorrect system   **February 2021 – May 2021**
- Tailored an Autocorrection system to implement Minimum Edit Distance algorithm using Regex and Numpy for custom corpus.
- Enhanced autocorrection accuracy by 20%, using supervised bi-gram model for weighted suggestions.

Developer, Social Distancing Tracker   **August 2020 – November 2020**
- Designed software to track social distancing in live video feeds using OpenCV and other image processing tools.
- Integrated the system with live cameras, leading to 20-30% increase in tracking of social distancing on campus

Lead Developer, Ticket Reservation Platform   **July 2020 - December 2020**
- Supervised the Back-End development of a web platform leveraging PHP, SQL, MongoDB and Node.js to perform real time data handling of 50,000+ national trains.
- Implemented AWS based system with IAM and EC2 features for real-time ticket reservation and ticket chart generation.

Project Lead, IEEE Bombay Section Website   **July 2020 - October 2020**
- Spearheaded the development of the IEEE Bombay Section Website, leveraging WordPress libraries for intuitive design and deployment and hosting.
- Developed multiple intra-organizational websites for financial transactions, social-media and streamlined event workflow.

Lead Analyst, Weather Life Impact Analysis   **March 2020 - August 2020**
- Incorporated multiple data sources to generate SQL database with location-based time-series weather, lifestyle data.
- Evaluated time-series weather data to predict weekly lifestyle changes, with an accuracy of 72% within 6 months.

Team Member, College-Connect Website (Back-End)   **January 2020 – December 2020**
- Managed end-to-end back-end development of dynamic web platform for guest lectures and mentor-mentee interaction.
- Implemented a MongoDB database for smooth data retrieval and assisted with integration with Node.js for improved user functionality, leading to 50% increase in student-faculty engagement.

WORK EXPERIENCE

DPSY & Associates   **Mumbai, MH, India**
Analytics Intern   **April 2023 - June 2023**
- Leveraged real-time data and market trends for predictive analysis in a high-stakes $100 billion market environment.
- Automated supporting functions using EXCEL Macros to reduce analysis time by 25% and optimize investment strategies.

Tech Analogy   **Virtual**
SMO Lead   **August 2021 - December 2021**
- Researched Ed-tech market segments and performed competitive analysis; collaborated with a team of 4 to execute strategy across 2 channels contributing to 30% of event revenue.
- Collaborated with cross-functional teams to manage leads, while generating 30+ new client relations, and providing day to day operational assistance.

LEADERSHIP EXPERIENCE

Executive Committee, IEEE Bombay Section   **Mumbai, MH, India**
Section Student Representative   **August 2021 – December 2022**
- Devised event timeline bi-annually and streamlined processes to increase efficiency by 60-70% and liaison for 100+ Chapter across 2 states.
- Coordinated amongst multiple teams of 70+ individuals through content curation, social media outreach and execution for international conferences.
- Led a team of 25 in developing and maintaining web applications for internal use and improved social media outreach by 30%.

Joint Secretary, IEEE SIESGST
- Documented 50+ events over throughout the tenure in addition to playing crucial roles in ideation, execution, and outreach.
- Established a lecture series for technical writing followed by an article writing competition with 100+ entrants.

Chairperson, Computer Society, IEEE SIESGST
- Initiated the chapter, leading a team of 70+ students, through seminars on data analytics, competitive coding.
- Spearheaded a collaboration with 5 chapters and 2 sections in organizing a codefest with 300+ entrants.

ACCOMPLISHMENTS

- Certifications - Google Data Foundations, Kaggle Project, Data Viz Techniques, Azure ML pipelines, Python for Data Science
- All India Rank 55 - IEEE Xtreme 13.0, Competitive Coding.
- Paper Published - Sports Analytics: Soccer Player Market Value Analysis.
- Anveshna – Explained Basic Python to grade 9 students.
- Lecturer –Delivered lecture on Competitive Coding to First year students.
- STEM Lecturer – Enabled underprivileged students to learn higher education in Mathematics.