Krishnakumar Valliappan
Quantitative Analyst II

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Avid learner and gaming nerd, I am an optimistic mathematician who thrives on unraveling data patterns and visualizing their stories. With over 2+ years of experience as a Data Analyst, I specialize in **Python, SQL, and AWS**, with a focus on Machine learning, Data Visualization and big data analysis. I love being part of a team where creativity and data intersect seamlessly. Outside of data, my hobbies include solving complex puzzles, exploring new hiking trails, and a never-ending quest to perfect my homemade pizza.

Technologies and Languages

- **Languages:** Python, SQL, JavaScript
- **Business Intelligence:** Power BI, Looker, BigQuery and Tableau
- **Tools:** GIT, MATLAB, Azure, AWS, Snowflake, Docker, MySQL, MongoDB
- **Framework and libraries:** Spacy, Tensorflow, OpenCV, Selenium, beautifulsoup4, PySpark, Django, React

Work Experience

Associate Data Analyst   **IA Flow Elements**   **September 2020 – July 2022**

- Engineered a **predictive model** that utilized machine learning algorithms to forecast sales trends, enhancing decision-making accuracy and contributing to a 15% uplift in sales projections accuracy.
- Boosted data processing efficiency by 40% via custom Python scripts for **ETL automation**, ensuring precise data handling from extraction to in-depth analysis, integrating with AWS cloud.
- Led the team to optimize data processing workflows by 30% by migrating to **AWS**, enhancing both data handling efficiency and **system scalability** while also ensuring data accuracy.
- Developed a **Python-based** application with a Tkinter GUI for the marketing team to add and track quotes, integrating with **Power BI** to visually monitor progress and improve quote management effiecieny.
- Established efficiency metrics and automated Excel dashboards using **VBA scripting**, which boosted the productivity and efficiency of designers and CAD technicians by over 25%.
- Enhanced business process efficiency and decision support by collaborating with teams to optimize data workflows and designing tailored Power BI dashboards and **KPI reports**, resulting in improved strategic planning across the organization.

Design Engineer   **IA Flow Elements**   **June 2019 – August 2020**

- Designed flow elements according to provided specifications using RW Miller software, improving product performance in the oil & gas sector.
- Managed technical quotations, effectively converting quotes to orders, demonstrating strong business communication skills.
- Handled client-centric reporting and documentation, ensuring tailored solutions and high customer satisfaction.

Education

- **Master of Engineering,** Concordia University.   **2022 - 2024**
- **Bachelor of Engineering,** Anna University.   **2015 – 2019**

Projects

- **Developed the Notion Ticktick Two-Way Sync Integration**: Engineered an application to enable seamless two-way synchronization between Notion and TickTick, addressing the need to efficiently manage tasks without juggling multiple platforms. This enhancement streamlined personal productivity by integrating these tools into a single workflow
  Technologies & Skills learned: Python, API integration, and automation strategies.
- **Developed an Interactive Digital Portfolio:** Constructed a comprehensive personal portfolio using Next.js and JavaScript to create a responsive and interactive web presence. This ongoing project showcases my front-end development skills and backend data management abilities.
  Technologies & Skills learned: Next.js, Tailwind-CSS, Framer-motion, shadcn-ui, front-end development.

Awards

- **Awarded Membership in Golden Key International Honor Society:** Recognized for academic excellence by being invited to join this prestigious society, which represents the top 15% of college and university students globally based on scholarly achievements.
- **Received the Rising Star Award in 2020:** Honored for exceptional performance and potential in data analytics within the first year of employment.

Extracurricular

- **Teaching Assistant, Transform Calculus and PDE, Concordia University (Sep 2023 – Dec 2023):** Developed Python simulations to demonstrate concepts like Fourier Series, Laplace Transforms, and PDEs, significantly enhancing student understanding. Led collaborative learning sessions and received excellent feedback, achieving a 20% increase in student satisfaction ratings.
- **Event Organizer, EXPRO Organization:** Successfully coordinated a major technical event during my undergraduate studies, fostering team collaboration and leadership skills in a practical setting.
- **Volunteer, Reading Assistance for Visually Impaired:** Provided support to individuals with visual reading disabilities, enhancing accessibility and contributing to community welfare during my undergraduate studies.