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Krishnakumar Valliappan

Quantitative Research Analyst

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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, AWS, and MATLAB**, 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
<ul style="list-style-type: none">● 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 efficiency.● 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
<ul style="list-style-type: none">● 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.