

Montreal, Canada  
Github | LinkedIn

# Krishnakumar Valliappan

## Microbiology 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, SQL, 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"><li>● Engineered a <b>predictive model</b> that utilized machine learning algorithms to forecast sales trends, enhancing decision-making accuracy and contributing to a 15% uplift in sales projections accuracy.</li><li>● Boosted data processing efficiency by 40% via custom Python scripts for <b>ETL automation</b>, ensuring precise data handling from extraction to in-depth analysis, integrating with AWS cloud.</li><li>● Led the team to optimize data processing workflows by 30% by migrating to <b>AWS</b>, enhancing both data handling efficiency and <b>system scalability</b> while also ensuring data accuracy.</li><li>● Developed a <b>Python-based</b> application with a Tkinter GUI for the marketing team to add and track quotes, integrating with <b>Power BI</b> to visually monitor progress and improve quote management efficiency.</li><li>● Established efficiency metrics and automated Excel dashboards using <b>VBA scripting</b>, which boosted the productivity and efficiency of designers and CAD technicians by over 25%.</li><li>● Enhanced business process efficiency and decision support by collaborating with teams to optimize data workflows and designing tailored Power BI dashboards and <b>KPI reports</b>, resulting in improved strategic planning across the organization.</li></ul>		
Design Engineer	IA Flow Elements	June 2019 – August 2020
<ul style="list-style-type: none"><li>● Designed flow elements according to provided specifications using RW Miller software, improving product performance in the oil &amp; gas sector.</li><li>● Managed technical quotations, effectively converting quotes to orders, demonstrating strong business communication skills.</li><li>● Handled client-centric reporting and documentation, ensuring tailored solutions and high customer satisfaction.</li></ul>		

## Education

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

## Projects

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- **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

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- **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

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- **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.