Tomas **Janik**

Lead Data Scientist

Takeda

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About me

Throughout my extensive career in data science, I have taken the lead on a variety of projects, showcasing my technical expertise and my ability to guide and inspire teams towards achieving our collective goals. My leadership style is rooted in clear communication and shared objectives, which has allowed me to effectively manage teams and deliver projects that have had a significant impact on business operations.

In my leadership roles, I have been recognized for my ability to make sound technical decisions, guiding teams through complex data and digital technology projects with a clear vision and a high degree of autonomy. By encouraging collaboration and sharing knowledge across teams, I have ensured that projects are completed with minimal disruption to the business, while still pushing the boundaries of what is possible with data analytics and machine learning.

Beyond technical acumen, I have dedicated myself to the growth and development of my colleagues, promoting an environment where technology leaders and staff can thrive. My efforts have centered on creating a collaborative atmosphere with a strong emphasis on interpersonal skills, enabling team members to work together seamlessly and support each other's professional journeys. This focus on taking care of talent has been key to building a resilient and dynamic team capable of tackling the challenges of a rapidly evolving industry.

Work Experience

Lead Data Scientist — *Takeda*

AI Lab (Project) — *2023 - 2024*

- This data science platform is designed to enhance productivity and foster innovation. As a co-leader in the AI Lab I have strengthen my skills in cloud-based data science solutions, collaborative development, and the agile transformation of data into actionable business value. My team built AI Lab on JupyterHub, facilitating collaborative work on Jupyter notebooks, and offers a choice of integrated development environments, including Jupyter Notebook, RStudio, and VSCode. Hosted on AWS EC2, the platform ensures high performance and scalability, while providing isolated environments for Python and R users to maintain project stability. AI Lab integrates with Databricks, AWS S3, and corporate GitHub, supporting a seamless data science workflow. It also allows for the creation of web apps, APIs, and RMarkdown reports, enabling rapid prototyping and effective communication of insights to stakeholders.

Lead Data Scientist — *VMware UK*

Cloud-based Solution Development and Monitoring on AWS (Project) — *2019 - 2023*

- Throughout my AWS project, I developed a robust solution utilizing Infrastructure as Code (IaaC) principles. The project involved hosting web applications built in shiny and streamlit, including apps for testing purposes, external connectivity, leveraging R, MongoDB, CSS, JS and Google API features. To ensure security, I implemented secure HTTPS connections and basic authentication. The solution was designed as microservices, with each application containerized and running on a Docker swarm. I created networking configurations to enable scalability, allowing each user to spin up a new container and use of a load balancer. Throughout the project, I diligently monitored traffic, the state of the Docker swarm, resource utilization, and logs to ensure optimal performance. It is deployed and operated on AWS, utilizing the platform's capabilities to deliver a reliable and efficient solution.

Automation (MLOps)

- This solution automates the entire machine learning flow, from data ingestion to model deployment, monitoring and logging. By leveraging MLOps and machine learning frameworks, the project streamlines the entire process, freeing up data scientists to focus on building and refining models rather than on manual processes.

Quote to Cash (Project)

- This project is an end-to-end machine learning solution that uses advanced algorithms to predict whether a quote is likely to be converted into a sale. Leveraging large amounts of historical data and sophisticated feature engineering techniques, the model is able to accurately predict the likelihood of a conversion, providing valuable insights to sales teams and helping them to focus their efforts on the most promising opportunities. The project is designed to be highly scalable, with a modular architecture that allows for easy integration into existing systems and workflows. Overall, it is a powerful tool for businesses looking to optimize their sales processes and drive growth.

Data pipelines (Project)

- This project is focused on consolidation of numerous flat files into one single source, resulting in significant time savings. By leveraging advanced ETL techniques and data processing frameworks, the project eliminated the need for manual intervention and saved 1500 man-hours at the directorial level. This enabled the team to focus on higher-value tasks and drove increased efficiency. Data pipelines is for organizations looking to optimize their data processes and drive significant time savings.

Senior Data Scientist

VMware UK

Forecasting Framework (Project) *2017 - 2019*

- This project is an end-to-end machine learning solution that predicts thousands of time series, broken down by product and territory, and is used in dashboards for executives across the organization. By leveraging advanced time-series modeling techniques and machine learning frameworks, the project provides accurate and timely forecasts, enabling executives to make data-driven decisions and optimize operations. The implementation of the solution has resulted in increased efficiency, reduced costs, and improved performance across the organization.

Account Forecasting (Project)

- This project is a machine learning solution that predicts bookings on an account level and is used for planning sales quotas across the organization. By leveraging advanced machine learning algorithms and predictive modeling techniques, the project provides accurate forecasts of future bookings, enabling sales teams to plan and optimize their quotas. The implementation of the solution has resulted in increased sales efficiency, improved forecasting accuracy, and better decision-making across the organization. The project has been a valuable tool for sales managers and executives looking to leverage data-driven insights to optimize their sales strategies and drive results.

Data Scientist

VMware UK

Internal systems audit *2015 - 2017*

- As part of my role, I was responsible for auditing internal systems and identifying gaps in integration across databases, storage, and machine learning platforms. By analyzing the systems' architecture and identifying key areas for improvement, I developed recommendations for solutions that would improve system efficiency and enable better data management. The project involved collaborating with cross-functional teams to identify the root cause of the integration issues and developing strategies to address them. The recommendations I provided helped to improve system performance, streamline data management, and better integrate databases, storage, and machine learning platforms. Overall, my work on this project helped to enhance the organization's technological capabilities and improve its overall data management practices.

Senior Order Analyst

VMware International

Reporting Specialist *2014 - 2015*

- As a Reporting Specialist, I was responsible for sourcing and designing data to produce reports for Sales, Quoting, and Export Compliance. I created reports and dashboards in a variety of platforms including Oracle Applications (OBIEE), Salesforce.com, Microsoft Packages, and web-based systems. To ensure ease of use and readability, I designed presentations of the analyzed data in Tableau, VMDash, and Excel. I also prepared weekly and monthly productivity reports for Senior Executives, providing them with valuable insights into key business metrics. Additionally, I completed quarterly analysis of transactional data from global business partners, which was used as a benchmark for improving collaboration with distributors. My role required strong analytical skills, attention to detail, and the ability to communicate complex data to stakeholders at all levels of the organization.

Order Analyst

VMware International

SME for Reporting *2011 - 2014*

- In my role as a data analyst, I initiated and executed data visualization using Tableau and Qlik for the Corporate Operations department. I collaborated with IT development teams in India and the US to secure network resources for data models. Additionally, I provided KPI metrics, measures, and data analysis to executive management and stakeholders, identifying gaps and raising suggestions to streamline processes and improve the quality of orders submitted by external partners. My role required strong communication skills, collaboration with cross-functional teams, and the ability to derive valuable insights from complex data.

Education

University College Dublin

Dublin, Ireland

Master of Science in Data Analytics *2014 - 2016*

University College Dublin

Dublin, Ireland

Professional Diploma in Data Analytics *2013 - 2014*

University of Economics

Bratislava, Slovakia

Information Technology *1999 - 2004*