

# Renswick Delvar

Data Storyteller | Generative AI | Statistician | Azure & AWS Certified

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## EXPERIENCE

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**Data Scientist | Dataengine, Auckland, NZ** Nov 2024 - Present

- Implemented MLOps best practices in AWS to monitor and maintain machine learning pipelines that can automate the retraining and deployment of new models.
- Engineered a robust GraphRAG system with advanced data access control, ensuring seamless, secure, and role-based information retrieval for diverse user groups.
- Developed a key data pipeline to automate high volume data processing from multiple sources to single destination enabling quick data analysis.

**AI & Integration Developer – Part time | Rizilience Consulting Ltd. NZ** Apr 2024 – Jul 2024

- Designed and implemented E2E cost efficient MLOps pipeline in Azure environment with MLFlow for custom logging and proactive concept drift detection.
- Supercharged pre-developed ML models for enhanced prediction by implementing custom refinement layers, resulted in 15% deduction in the false negative score.
- Maintain and optimize the data integration platform leveraging Azure Data Factory and Azure Logic Apps effectively support diverse data integration needs.

**Associate Manager – Data Science (NLP) | MSD Pharmaceuticals (Merck & Co.)** Sep 2023 - Feb 2024

- Developed an end-to-end custom ChatBot using Retrieval Augmented Generation (RAG model) from creating a knowledge base with existing and synthetic data to retrieving and delivering human-like answers.
- Pioneered the integration of LangChain's Agents & Tools to enhance the potential of LLM application, resulting in significant functional advancements and performance optimizations.
- Cultivated and sustained positive relationships with stakeholders and vendors across diverse projects, ensuring flawless collaboration and effective project management.

**Statistical Data Scientist | Pfizer** Oct 2020 - Sep 2023

- Engineered a high-caliber ETL pipeline for a RShiny application, from extracting and transforming data to securely deploying to AWS S3 bucket for seamless integration for a patient report generation tool.
- Led the creation of an innovative GPT-3.5 powered SQL code generator, enables 2x programming efficiency.
- Mastered prompt engineering techniques to swiftly capture user intentions, effectively mitigating hallucination challenges and optimizing the precision of prompt-based systems.
- Created a user-centric Adoption Dashboard, instating dynamic data capture and augmenting user insights and system efficiency.
- Guided and orchestrated a team of 4 junior associates adeptly in the transition of legacy SAS macros to Python utilities, showcasing prowess in technical leadership and innovation.

## EDUCATION

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**Post Graduate Diploma in Data Science** Feb 2024 – Nov 2024  
*Victoria University of Wellington, New Zealand* **Grade: A**

**M.Sc. Statistics** Jun 2018 - Apr 2020  
*Loyola College, Madras University, India* **CGPA: 8.3**

**B.Sc. Statistics** Jun 2015 - Apr 2018  
*Loyola College, Madras University, India* **CGPA: 8.1**

## CERTIFICATIONS

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- [1] **Microsoft Certified:** Azure Data Scientist Associate
- [2] **SAS Programming Specialist:** Base Programming Using SAS 9.4
- [3] **Microsoft:** Career Essentials in Generative AI

## HONORS & AWARDS

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**Generative AI Hackathon - Winner** | *MSD Pharmaceuticals (Merck & Co.)* Dec 2023

**CDISC Dataset-JSON Hackathon- Finalist** | *CDISC* Nov 2022

## PRESENTATIONS

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**PHUSE SDE INDIA 2022** | *PHUSE* Dec 2022  
*AI / ML Enabled Clinical Dataset Generation*

**SPA INDIA - MANILA AHM 2022** | *Pfizer* Nov 2022  
*Study Data Tabulation Model (SDTM) Creation with NLP*

## TECHNICAL SKILLS

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**Programming Languages:** Python, R, SAS, SQL

**ML Frameworks:** PyTorch, TensorFlow, Keras, Scikit-Learn, NLTK, SciPy

**Azure** – Databricks, Blob Storage, Datalake, Azure ML, AI Foundry, Azure AI Search, API Management, MS Fabric, MLFlow, Logic Apps, Function Apps

**AWS** – SageMaker, Bedrock, S3, Lambda Functions, API Gateway, DynamoDB

**Generative AI:** OpenAI (GPT – 3.5, GPT – 4), Llama2, Llama3, LlamaIndex, HuggingFace, LangChain, Open source LLMs, Embedding Models, VectorDBs (Qdrant, Chroma, Pinecone), LLM Finetuning, RAG and Advanced RAG improvements, LLMops, TrueFoundry

**Data Wrangling & Visualization:** Tidyverse, ggplot2, Plotly, NumPy, Pandas, Matplotlib, Seaborn

**Big Data:** Apache Spark, Hadoop, Pyspark

**Database:** SQL, PostgreSQL, MongoDB, VectorDBs

**Developer Tools:** Git, VS Code, SSH, Linux, R Studio, RShiny

**Relevant Coursework:** Machine Learning, Deep Learning, Natural Language Processing, Big Data, Probability and Statistics, Data Visualization, Data Mining, Linear Algebra, Multivariate Analysis, Time Series Forecasting

## REFERENCES

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[Stephen Matteson](#) Pfizer  
*Senior Director of Global Head of Programming Standards (Retired)*

[Aishwarya L.R](#) Pfizer  
*Senior Statistical Programming Lead*

[Joseph Rajan](#) Epicacy  
*Senior Technical Lead*

[Arthi Rajendran](#) Zoho  
*Top Data Science Voice - LinkedIn*