



ARMAND GRAAFF

DATA SCIENTIST

CONTACT

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121 Amos Street, Colbyn,
Pretoria

EDUCATION

UNIVERSITY OF PRETORIA

- Masters of Science in
Advanced Data Analytics &
Mathematical Statistics
- Bsc Hons in Mathematical
Statistics
- Bachelors of Science in
Mathematical Statistics

OTHER INFO

Link to LinkedIn page:
<https://www.linkedin.com/in/armand-graaff-b871191b4/>

LANGUAGES

- English (Fluent)
- Afrikaans (Fluent)

PROFILE

I am a Christian, a husband, and a dedicated data professional. My career has been fueled by a deep fascination with the intersection of data, business, and people – and how their collaboration can create meaningful impact.

With a foundation in Mathematical Statistics, I have grown into a career in Machine Learning and Data Science, where I thrive on solving complex problems and translating insights into real business value.

I am driven by curiosity and a love for both critical and creative thinking. I take pride in empowering teams to deliver groundbreaking insights that consistently move the needle. Continuously learning new technologies and embracing new ways of thinking – especially in the ever-evolving IT & AI landscape – is at the heart of who I am as a professional.

WORK EXPERIENCE

● BMW IT Hub South Africa

2021-PRESENT

Team Lead - No-Code AI Platform & AI Accelerator

- Team lead of the No-Code AI platform team, leveraging DataRobot to rapidly prototype, train, and deploy machine learning models at scale — accelerating delivery from concept to production.
- Headed the AI Accelerator team, an in-house consulting service that supports business units across the BMW Group (IT, Sales, Logistics, Production, and more) to identify, develop, and industrialize ML use cases.
- Drove cross-functional collaboration
- Contributed to computer vision initiatives by supporting object detection use cases across various departments.

ACHIEVEMENTS & CERTIFICATIONS

Golden Key Award

Received Golden Key award while studying for being in top 15% of class

Certifications

- AWS Cloud Practitioner
- AWS Solutions Architect Associate
- AWS Machine learning Specialty
- AWS Data Engineer

SKILLS

From a development perspective, I work primarily in Python and have practical experience building end-to-end machine learning solutions in AWS, from data processing and model training to deployment and operationalization. In addition, I have spent personal time experimenting with AI agents and agent-based workflows, which has given me practical exposure to emerging generative AI patterns and applications. Some more details on technical skills below:

ML/AI: scikit-learn, DataRobot, TensorFlow, PyTorch, LangChain, LLM application development, prompt/context engineering, computer vision, forecasting

My AWS experience includes:

- Amazon SageMaker for training, deploying, and operationalizing machine learning models
- AWS Glue for ETL pipelines
- AWS Lambda for lightweight processing jobs
- AWS Step Functions for orchestrating multi-service workflows
- Amazon Bedrock for generative AI solutions
- S3, IAM, and other core AWS services

PAST PROJECTS

Currently, I am leading the AI Accelerator team in the IT Hub, where we support global teams in applying machine learning to a range of business use cases across logistics, plant quality inspection, financial services, and other domains. Below are some of the most relevant projects I have delivered.

Option Take Rate Forecasting

I supported the planning department by developing **forecasts** for vehicle option take rates over a three-month horizon, helping to improve supplier ordering decisions and planning efficiency. For example, on an X3, how many people would order 21" Rims, how many would order leather upholstery, different paint colors, etc

Plant rust detection

I worked with plant personnel in Spartanburg, USA, to train a machine learning model for **detecting rust on vehicles** during final quality inspection after a hurricane impacted the Charleston port, where vehicles had been awaiting shipment.

Vehicle arrival prediction

I developed a machine learning model to predict the number of days it will take for a vehicle to arrive at a dealer in the **EU market** from the day it left the plant, taking into account factors such as delivery route (which rails and ports are utilised), production region, and destination region. This use case also involved working with **SAP DataSphere** in order to extract and prepare the data from Machine Learning
