Piene Claessen
Freelance Data Scientist

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in [To Linkedin](#)

Education

Cadet Officer Training
Royal Military Academy (KMA)
Sep. 2019 - Dec. 2019

Msc. International Management
Tilburg University
Sep. 2016 - Jan. 2018

Bsc. Business Management
Fontys University of Applied Science
Sep. 2012 - Jun. 2016

Skills

Programming
- Python (including Pandas, Numpy, Scikit-Learn, TensorFlow, XGBoost, PyTorch, Matplotlib, Seaborn, LangChain, HuggingFace)
- Large Language Models (LLMs) & RAG Pipelines
- (Applied) Machine Learning

Data & Cloud platforms
- SQL / PostgreSQL
- Docker
- Azure (ML Pipelines, DevOps)
- Git
- Microsoft Power BI
- Dataiku

Other tools & Methods
- Microsoft Excel
- SharePoint/Nintex
- Workflow Automation
- Agile/Scrum

Profile

I am a freelance data scientist with a strong track record of developing data products that deliver measurable business value. I bridge business and technology in both directions, translating business needs into end-to-end data solutions - from pipelines to dashboards - and translating technical outcomes into clear, actionable insights for stakeholders.
I communicate complex technical concepts in an accessible way and help organizations adopt data-driven approaches effectively.
As a former military pilot trainee, I bring a structured, reliable mindset and the ability to perform under high pressure.

Hard skills: Python · Machine Learning · LLMs (RAG pipelines) · SQL · Azure · Power BI

Work experience

Data Scientist, Royal Netherlands Air and Space Force, Breda - the Netherlands
April 2024 - Current
In my role as a Data Scientist within the Data Science Cell, part of the Digital Transformation program, I contribute to strengthening and accelerating the Royal Netherlands Air and Space Force through the development of various data products.
My work has included:
- Developing a predictive maintenance tool for the NH90 helicopter using machine learning, increasing on-time parts availability by ~20% and reducing excess stock by ~25%, which addressed long lead times.
- Building an LLM supported AI agent enabling operational teams to retrieve mission-critical insights ~30% faster.
- Designing and validating predictive analyses to support operational decision making.
- Cleaning, processing, and integrating data from multiple source systems, using tools such as SQL and Azure.
- Bridging the gap between domain experts and data specialists to enable knowledge sharing and generate shared insights.

Data Analyst, Royal Netherlands Air and Space Force, Breda - the Netherlands
March 2022 - April 2024
As a Data Analyst within the Digital Transformation program of the Royal Netherlands Air and Space Force, I was responsible for a broad range of data related activities. Due to the limited in house data expertise, particularly during the early phases of the program, I was given significant responsibility in defining frameworks and guidelines at the Air Force-wide level.

My responsibilities included:
- Building multiple interactive Power BI dashboards, improving access to operational data and enabling faster, data driven decisions across teams.
- Established Air Force-wide data governance and management frameworks tailored to the military context to make data accessible for operational and strategic teams.
- Delivering data literacy and analytics training to senior management, including colonels and generals, reaching 50+ senior officers and influencing strategic decisions at the highest organizational level.
- Implementing a SharePoint/Nintex platform to centralize reporting of digital opportunities, improving reporting efficiency by ~30%.

Military Pilot in Training, Royal Netherlands Air and Space Force, Woensdrecht - the Netherlands
September 2019 - March 2022
I spent 2.5 years in training to become a Military Aviator within the Royal Netherlands Air and Space Force. Demonstrated disciplined decision-making, structured thinking, and operational awareness under high pressure conditions, laying the foundation for reliable, impact driven work as a data scientist.
- Completed the officer training at the Royal Military Academy (KMA).
- Obtained a frozen ATPL, with courses such as meteorology, flight planning and monitoring, and human performance.
- Logged approximately 30 flight hours as a military pilot trainee on the Pilatus PC-7.

Database Analyst, IRI, Zaltbommel - the Netherlands
January 2018 - September 2019
As a Database Analyst Setup & Restatement at IRI, I was responsible for building and maintaining databases for FMCG clients in the UK, translating client needs into clear, accessible data structures.
My key responsibilities included:
- Designed and implemented full database solutions from scratch for FMCG manufacturers, creating structured, user-friendly databases that enabled clients to efficiently manage and access their product data.
- Acted as the go-to technical expert across multiple projects, supporting colleagues and ensuring effective knowledge transfer.
- Collaborated closely with account managers and UK stakeholders to gather requirements and translate them into practical database solutions.
- Performed data validation and quality checks, increasing data accuracy and reliability by ~15% across all client databases.
- Managed remote collaboration with UK-based stakeholders, ensuring timely delivery of database solutions across multiple time zones.

Internships abroad
Bacherlorthesis; Marketingexportplan, Deki Electronics, Noida - India
February 2016 - May 2016

Internship; Data analyst, Dream Aupair, Auckland - New Zealand
February 2015 - July 2015

Certificates
Microsoft PL-300 Data Analyst Associate
Microsoft AZ-900 Azure Fundamentals