Tharrmeehan **Krishnathasan**

DATA ENGINEERING · PROCESS AUTOMATION · APPLIED AI · ANALYTICS

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PROFILE

MSc student in Applied Data Science and AI at HSLU, with a BSc in Artificial Intelligence & Machine Learning. At Swisslog, I develop Python data workflows and automate recurring tasks, and I contribute to Power BI reporting. My project work spans data engineering, forecasting, and applied AI.

PROFESSIONAL EXPERIENCE

10/2025 – present

Working Student QEHS

Swisslog, Buchs AG

- Develop Python workflows to clean, validate, and standardise logistics and shipment data.
- Build tools to process transport data and estimate emissions from transport distances.
- Developed a Python-based document-processing workflow to extract, validate, and structure shipment-related information.
- Maintain and improve Power BI dashboards and reporting workflows.
- Automate recurring tasks with Power Automate and Power Apps and help troubleshoot internal applications.

09/2024 – 04/2025

Working Student, Procurement

Saint-Gobain Weber AG, Switzerland

- Prepared transport data with Python and pandas for global warming potential (GWP) calculations.
- Supplier price comparisons and cost analyses from ERP reports for internal customers.

SELECTED PROJECTS

Academic project | Python, SQL, AWS

Data Warehouse on AWS

Academic warehouse project covering ingestion, transformation, dimensional modelling, and analytical queries.

Independent project | Python, PostgreSQL, LightGBM, MLflow, React

Swiss Energy Forecast

Built a Swiss electricity forecasting pipeline with time-aligned features, prediction intervals, and experiment tracking. The public dashboard displays scheduled forecast exports.

Independent prototype | Python, Qdrant, Streamlit

Swiss BGE RAG

Built a search and question-answering prototype for Swiss Federal Supreme Court rulings, with hybrid retrieval, reranking, and an evaluation on a small corpus.

EDUCATION

09/2025 – 07/2027 (expected)

MSc Applied Data Science and AI

Lucerne University of Applied Sciences and Arts (HSLU)

- Ongoing research on modular, semi-automated product carbon footprint calculation.
- Completed coursework includes applied machine learning, time series and panel data, data quality, data integration, database management, DevOps and generative AI.

09/2021 – 02/2025 **BSc Artificial Intelligence & Machine Learning**
Lucerne University of Applied Sciences and Arts (HSLU)

- Bachelor's thesis, grade 6.0 / 6.0: Automated Assessment of Linguistic Abilities of Language Models. Extended a Holmes-based evaluation approach, built an interactive probing frontend and compared quantised and non-quantised LLMs with statistical tests (t-tests).

TECHNICAL SKILLS

Programming	Python, SQL, R, VBA, Bash
Data Engineering	data pipelines, ETL / ELT, data quality and validation, data modelling
Databases	PostgreSQL, SQL query optimisation, data warehousing, dimensional modelling
Microsoft	Power BI, Power Query, Power Automate, Power Apps, Excel, Microsoft 365 SIZ Microsoft Office certificate, passed with distinction
Analytics & BI	Tableau, pandas, Polars, KPI reporting, statistics (time series, Bayesian, experimental design)
Machine Learning	scikit-learn, PyTorch, LightGBM, MLflow, deep learning, computer vision, forecasting, SHAP
Applied AI & NLP	NLP, LLMs, RAG; MLOps coursework
Automation & Apps	Python automation, Streamlit, document processing
Tools & Cloud	Git, GitHub, GitLab CI/CD, Docker, Linux, AWS (academic project)
Domain	supply chain and logistics, energy systems and IoT data, customer analytics

LANGUAGES

German	Mother tongue
Tamil	Mother tongue
English	C1 (Cambridge CAE)
French	Basic