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## WORK EXPERIENCE

#### ARGUSA SA – DATA SCIENCE AND ANALYTICS ENGINEERING CONSULTANT | *from 2023*

#### Machine Learning and Data Science:

#### • Developed interpretable yet accurate models for an international bank using regularization techniques such as Ridge, Lasso, and Elastic Net regression, which improved predictive performance and reduced overfitting compared to traditional ARIMA models.

• Deployed models through APIs, enabling seamless integration with existing systems and real-time predictions.

#### • Developed two chatbots using Streamlit for secure data interactions and client-facing queries, employing Retrieval Augmented Generation (RAG) and open-source LLMs.

#### Automation and Data Engineering:

#### • Automated data ingestion using web scraping and API calls to populate Snowflake with relevant data, ensuring timely and accurate data availability.

• Preprocessed data in Snowflake and DataIku, enhancing data quality and preparation for model development.

#### • Developed a Dockerized bot on AWS and Snowflake for automated web scraping, providing daily insights and sharing summaries via Slack.

#### Dashboards and Reporting:

#### • Created role mining dashboards for the IAM department of a multinational luxury watchmaker, reducing user role creation time and enhancing compliance monitoring.

#### • Led marketing initiatives, including website redesign, social media management, event organization, and creating impactful reporting tools.

#### Training and Development:

#### • Conducted highly-rated training courses on Tableau and Tableau Prep, boosting participants' data visualization skills.

#### UNIL – DATA SCIENTIST AND DOCTORAL RESEARCHER | *2018 – 2022*

**Machine Learning and Advanced Analytics:**

•Specialized in supervised and unsupervised learning, including regression, classification, clustering, and deep learning.

•Conducted dimensionality reduction and data preprocessing for various research projects.

**Quantitative Research:**

•Analyzed the impact of leadership on U.S. State GDP growth.

•Evaluated ML estimator performance through Monte Carlo simulations.

**Project Leadership and Academic Contributions.**

•Led multiple research projects from inception to completion.

•Presented research at international conferences and taught courses in Organizational Behavior, Statistics for Causal Analysis, and Leadership.

#### ALAYA SA – DATA SCIENCE CONSULTANT | *2020- 2021*

#### Data Science Strategy Development:

#### • Developed strategies for data collection and analysis to assess platform impacts.

#### • Identified key variables for analysis, enhancing data-driven insights.

**CERTIFICATIONS**

Snowflake SnowPro Core

Tableau Desktop Specialist

DataIku Core Designer

Stanford Machine Learning Specialization

### Personal info

**Email:**

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**EDUCATION**

**PhD in Economics - University of Lausanne**

2018 – 2022 (5.5/6 GPA)

Awards: Rising Leaders Best Paper Award, Prix de la Solidarité Confédérale

**Master of Science in Management - University of Lausanne**

2015 – 2017 (5/6 GPA)

•Exchange Year - Telfer School of Management, Ottawa, Canada, 2014 – 2015 (5/6 GPA)

**Bachelor of Science - University of Lausanne**

2013 – 2015 (4.7/6 GPA)

Data Scientist and Analytics Engineer

Tyler R. Kleinbauer, PhD

### Profile

Analytical thinker with a hybrid profile combining data science, analytics engineering and business administration expertise. Proven ability to develop innovative solutions and drive impactful projects.

Passionate about leveraging technology to solve complex business problems and improve decision-making.

### Skills & Tools

**Programming Languages**: Python, SQL, R, Stata, JavaScript

**Tools & Platforms:** Snowflake, AWS, Dataiku, Tableau, Docker. Git

**Python Libraries:** LangChain, OpenAI, NumPy, Scikit-learn, pandas, TensorFlow, Matplotlib, Keras, Selenium. Streamlit.

**Frameworks:** Django, React

**Languages:** English/French (native), German (beginner)

**Soft Skills:** Project Management, Presentation Skills, Leadership, Problem-solving