

Yannick Flores

Sr. Data Scientist

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Location : Basel, Switzerland | Phone Number : +33 6 09 07 71 78 | Work Permit G

French : Native speaker | English : Fluent

7 years of experience in data science and software engineering. Piloting & developing projects to deliver innovative solutions. Guiding teams to ensure the success of data-driven initiatives.

GitHub: github.com/yannick-yf | LinkedIn: [yannick-flores-49583a102](https://www.linkedin.com/in/yannick-flores-49583a102)

TECHNICAL SKILLS

PROGRAMMING

Programming language

- Python
- R

Database:

- SQL: Redshift, SQL Server
- Cypher (Neo4j)
- DocumentDB

Development toolkit

- GitHub/Gitlab
- CI/CD (CircleCI, Github Actions)
- Docker

DATA STRENGTHS

- Data & Statistical Analysis
- Model Training Pipeline
- Data Engineering Pipeline
- Package & API Development

DATA TYPES

- Tabular
- Image, Video
- Sensor
- Satellite and Weather

SOFT SKILLS

Team spirit

Problem solver

Calm under pressure

COURSEWORK

Large Language Models

- Prompts Engineering
- Agents Development & Evaluation

Tree-based Models

Generalized Regression Model

Unsupervised Algorithms

EXPERIENCE

SENIOR DATA SCIENTIST | SYNGENTA, DIGITAL DEPARTMENT

Feb 2021 – Present | Basel, CH

LLM Agent for Product Recommendations: Develop and launch Syngenta's first commercial LLM Agent. Framework ensures the model's accuracy and alignment with domain experts's benchmarks. (Python, langchain, ragas, AWS cloud: Bedrock, Lambda functions). **Impact:** Agent accelerates the recommendation process for end users by 50% while enabling custom field recommendations leveraging internal APIs, domain expertise and data.

Commercial Deployment of Machine Learning Solutions: Pilot and deploy disease detection models in 3 countries. Leading cross-functional teams and collaborating with stakeholders to identify and prioritize projects. Provide daily and on-demand risk predictions. (Python, CircleCI, DVC, Sagemaker, APIs). **Impact:** 60% increase in users (from 17k to 27k) and reducing model execution time per user by 50%.

Development and Deployment Ecosystem: Launch and design an MLOps ecosystem with reusable components speeding up the deployment process for new models. (Python, MLOps, CI/CD: CircleCI, GitHub Actions, Docker, AWS Cloud: Sagemaker, Redshift, DocumentDB, APIs). **Impact:** Reduce by 66% the delivery of new models.

DATA SCIENTIST | SYNGENTA R&D AND PRODUCTION SITE

Oct 2017 – Feb 2021 | Münchwilen, CH

Data Science Lead for R&D activities: Led the Data Science initiative to drive innovation and digital transformation across R&D and chemical industrial lines. (R/Python, Shiny, scikit-learn, caret, pandas, dplyr) **Impact:** improving usage and tracking of experiments. Create awareness of data-driven initiative capabilities.

Automated Data Analysis: Implementation of automated data analysis for site management. (R, Rmarkdown, Shiny, SQL Server). **Impact:** Leads to a yearly saving of 250k CHF by optimizing freight forwarder contract selection.

JUNIOR DATA SCIENTIST | DIGITAL VIRGO, MARKETING & DATA DEPARTMENT

Sep 2016 – Sep 2017 | Aix-en-Provence, FR

EDUCATION

MASTER DEGREE IN ECONOMETRIC, SPECIALIZED IN BIG DATA

AIX-MARSEILLE SCHOOL OF ECONOMICS - AMSE

2015 – 2016 | Aix-en-Provence, FR

MENTORING & TEACHING

Data Science Teacher and Speaker - 2024 - Epitech Strasbourg

Data Science mentor - 2023 - Aix-Marseille-Schools-of-Economics