GUILLAUME ORSET-PRELET

+33 6 10 80 32 75 • GUILLAUMEORSETPREL@GMAIL.COM • [LinkedIn](#) • [Portfolio](#)

Machine Learning Engineer with commercial experience in Natural Language Programming (NLP) and Cloud development. Trilingual in English, French and Spanish I seek a meaningful career developing ML and AI based products for a progressive organization leveraging my general, technical and managerial strengths.

Education

CY-Tech: Programme Grande Ecole (2018-2022), *Master of Artificial Intelligence,* Cergy, Ile-de-France

Grenoble School of Management: Programme Grande Ecole (2018-2022), *Master of Management,* Grenoble, Isère

French Baccalaureate Distinction: best honors

Polytechnic University of Valencia: Academic Exchange, (January - July 2021), *Computer Science*, Valencia, Spain

Technical Work Experience

SIA Partners, *Data Scientist Consultant,* Paris, France   May 2023 - now

- Implementing the first Generative AI POC at L'OREAL to speed up the literature review process. Created the entire back-end using a software architecture to deploy a Search Engine based on Arxiv, Google-Scholar, PubMed and a Q&A interface based on LLM (PALM) to chat with documents. I collaborated with the Head of AI at L'OREAL using LangChain to make this code modular and usable with any LLM and Vector Store (we currently use MatchingEngine).
  Created the front-end to display the abstracts of papers, allowed to select them and to chat with the selected ones using Flask.

- Worked as a DevOps to create the Algo Factory based on Vertex AI to build a tool-box to industrialize L'OREAL's algorithms.

Unify Group (gathers the digital activities of TF1, the 1st French TV channel), *Machine Learning Engineer,* Paris, France
September 2021-September 2022

- Independently fine-tuned a summarization model based on BARThez to provide abstracts of online media. Used Pytorch environment for fine-tuning and industrialized the project through a Kubeflow pipeline using Kubernetes. I obtained a ROUGE1 score of 33.68 and a BERT score of 72.32. Wrote a *Medium* article about it: https://medium.com/@guillaumeorset/.
- Implemented CI/CD for 3 projects to automate testing, documentation and releases using GitLab.
- Developed a new content-based recommender system for *Marmiton* with two data scientists to offer cooking recipes based on the ones visited by a user. Deployed the model using Google Cloud Platform (GCP).
- Conducted A/B testing for a recommender system, improving the click rate by 300%.
- Worked on churn prediction to maintain our subscribed users using LightGBM and XGBoost models.

SNCF Voyageurs, *Data Scientist (work-linked training),* Lyon, France   September 2019-September 2020

- Implemented a real-time map with Folium to visualize the current capacity of over one hundred individual train lines across France.
- Developed a Python passenger flow forecasting model linked to on-board counting technologies to get counts for 90% of the trains against 20% before.
- Wrote the specifications of the new data-visualization tool and mock-up realized in WEB language (HTML, JS, CSS) to help business units create the actual tool in Power BI.

Extracurricular Activities

AggregEstate, *Founder - Django Application,* Paris, France   January 2021- April 2022

- Created a MySQL database fed by web scraping scripts to get as many real estate ads as possible from various companies (JLL, CBRE, KAUFMAN & BROAD). Normalized all metrics to get a usable database and to provide insights for each request on the website like the average price per square meter in the search area.

- Created a web platform in Django managing the backend in Python and the front-end in HTML, CSS, JS. Connected the MySQL database to the web platform through Django to make all the real estate ads available on the website.

- Created an inquiry system based on GPS coordinates using Google Maps API with a radius selector to allow users to select the size of the search area.
- Industrialized the website with *Python Anywhere* scheduling web scraping scripts to get real-time ads.

Skills & Interests

Programming: Python, Git, GCP, Kubeflow, Kubernetes, Spacy, Pytorch, TensorFlow, CI/CD, Transformers models, Docker, DevOps, LangChain, LLMs

Databases: BigQuery, MySQL, Postgres, Vertex AI MatchingEngine (Vector Store)

Web Development: HTML, CSS, JavaScript, Flask, BeautifulSoup, SalesForce, Web Scraping, Selenium, Django

Interests: tennis, diving, films, skiing, soccer, biking, architecture, gastronomy, traveling

Languages: native in French, fluent in English and Spanish