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# Zackary Ducreux

## Data Analyst/Scientist



[LinkedIn profile](#)

### IT SKILLS

- **Python librairies:** Pandas, NumPy, Matplotlib, Seaborn, Scikit learn, TensorFlow, Keras, PyTorch, LightGBM
- **Coding softwares:** Complex queries with **SQL**, permissions and databases managment on **Snowflake** and **DSW**, **KQL** extraction queries and functions creation on **Azure Data Explorer**, computational pipeline on **Dataiku**, advanced statistics on **R studio**, terminal coding and Jupyter Notebook on **DSW** and **One.IA**
- **Dashboarding softwares:** Power BI with DAX, Tableau, Dataiku, Azure Data Explorer
- **Versionning systems:** Git with Gitlab & Github and Bitbucket

### DESCRIPTION

With a strong passion for complex problems and an expertise in Data Analysis, I'm determined to use my skills to contribute to important projects in the field of the pharmaceutical industry. My commitment is to find innovative and effective solutions to improve the yield through troubleshooting using Big Data. My involvement in each project is guided by the ambition to create a positive impact on the company through Data Science and Analysis.

### PROFESSIONAL EXPERIENCES

**Biostatistician and SDO:** 07/23 - 12/24, **Sanofi Pasteur**, Marcy l'Étoile, France

- Responsible on the business side of the tagging of **bacteriology** and **virology** bioreactors on *Toronto (CA)*, *Swiftwater (US)*, *Marcy l'Étoile (FR)* and *Val De Reuil (FR)* sites.
- Extraction of equipment data via a **Data Lake** using **Snowflake** tools, data retrieval queries in **SQL** and **Python** to check the flow of equipment data.
- Dashboarding solutions to visualise discrete and continuous equipment data from different sites on **Tableau**, **Azure Data Explorer** + **Power BI** and **Dataiku**.
- **Power BI** Dashboard to analyse the **yield** and **write-offs** of Sanofi products for Top Management.
- Data cleaning and **computational pipelines** on **Dataiku** and file sharing on a accessible sharepoint.

**Data Scientist:** 08/22 - 06/23, **Urbasolar**, Montpellier, France

- Extraction with **SQL** and **Python** algorithms of Data Cleaning, Data Analysis and Machine Learning for prediction of **supervised** and **unsupervised** data on solar power plants (**LSTM**, **RF**, **K-NN**, **GB**).
- Analysis of mechanical structures using strain gauges and inclinometers. Financial profitability study of an insular solar production site of New Caledonia.

**Data Analyst:** 08/21 - 12/21, **Interdisciplinary Institute for Technological Innovation (3IT)**, Sherbrooke, Canada

- Developed **Python** programs for data cleansing, analysed the performance of various photovoltaics technologies and detected **corrective defaults** in the solar park using a **Graphical User Interface(GUI)**.

**Home Care Worker (Gap year):** 10/20 - 06/21, **Edinburgh Homecare**, Edinburgh, Scotland (UK)

**Data Visualisation Internship:** 07/19 - 08/19, **Comwatt**, Montpellier, France

### EDUCATION

**EPF Engineering School 2017-2023**, Montpellier, France

- **Big Data** speciality, **Data Scientist** option, Masters course exclusively in English

Data cleansing and visualisation | Predictive modelling | Machine Learning | Business Intelligence |  
Applied statistics | Clustering | Data and Ethics | Data analysis | Time Series Analysis

### LANGUAGES

**French:**  
Native (C2):  
Voltaire certificate: 84%

**English:**  
Full professional competence (C1):  
**TOEIC : 980/990**  
Master in English, 30+ countries visited

**German:**  
Fundamentals (A2)

### INTERESTS

**Businesses:** Carpentry with epoxy resin (**Woody Poxy**), co-director of a wine trading company (**Rouge Palais**).

**Sports:** rugby, running/trail/ultra-trail, multi-pitch climbing and bouldering, paragliding and mountaineering (**FFCAM**).

**Student associations:** Former member of 4 student clubs, including one in charge of the Board of Directors.