Valentin Mouret

Machine learning Engineer
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Profile

Machine learning engineer from France, with a track record in building ML and data products at scale. I love building systems of all sorts and helping the business be successful with data driven insights.

Experience

Since Oct. 2022 - Side projects & learning

Took some time to work on full-stack side projects to learn new technologies.

- dioxydes: a platform to help people centralise their public data

Clojure, PostgreSQL, React, Cloudflare, CleverCloud, GraphQL

Nov. 2021 - Oct. 2022 – Head of data, La Bourse aux Livres – Paris

Led a data team of myself, one data scientist, and one developer. Migrated away from the Firestore and into a PostgreSQL database to make workloads simpler and more robust. Largely simplified the Business Intelligence by setting up clear and light interfaces in BigQuery. Helped structure the engineering team (setting up standups, retro), and spreading good practices (git, pull requests…).

Writing:

- Functionally migrating from Firestore to PostgreSQL
- Batch inserts in PostgreSQL
- Why Elon would have fired me

PostgreSQL, TypeScript, Python, Google Cloud Platform, Firebase, BigQuery

Mar. 2018 - Nov. 2021 – Data Scientist, PubNative/Verve – Berlin & Paris

Worked in a team of 4 data scientists on an ad exchange with +100B requests per day.

I worked on end-to-end machine learning projects, from exploration, to model building, to building the APIs serving live predictions on thousand to million queries per second in several data centres across the planet.

Predicting the winning prices of auctions and building optimisation algorithms: +50% in profit rate, no drops in revenue.

Reducing costs without dropping revenue by sending fewer requests: reduced traffic by half, saving +1M$ per year of network costs, no significant decrease in revenue.

Writing:

- A/B testing a high load, low latency system at PubNative
- Adopting a functional paradigm with Jupyter Notebooks

Jupyter, Spark, TensorFlow, Go, Scala, Kubernetes

Apr. 2017 - Feb. 2018 – BI Developer, monbanquet.fr – Paris

Automated business reporting with quotations parsing. Used website scraping and API calls to automate giving leads to sales.

Scrapy, BeautifulSoup, Python, Go, SQL, AppsScript, Google Sheets

Jun. - Aug. 2016 – BI Developer, ShopWings – Sydney

Managed data warehouses and automated processes. Wrote scripts to fetch APIs and scrape websites. Built and maintain dashboards, reports, and tools.

Scrapy, BeautifulSoup, Python, SQL, AppsScript, PostgreSQL, MySQL, Google Sheets

Side Projects

Dioxydes: Help people with their online identities by deciding what's public, private, or professional.

Open Source

ViteMaDose

Contributed to the scraper and data processing.

https://github.com/covidtrackerfr/vitemadose

Python

Our World in Data

Contributed to the data pipelines to get the vaccinations per country.

https://github.com/owid/covid-19-data

Python

Education

ESIEA, Ivry-sur-Seine — Masters degree in Engineering, 2015-2018

Lycée Raspail, Paris — Preparatory classes, PT* 2013-2015

Skills

- Fluent in English, native in French
- Team player (I love helping people improve and reaching their maximum potential)
- Organised, efficient, reliable, versatile
- Quick learner and curious