ARTHUR DEGONDE

Machine Learning Engineer

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EXPERIENCE

Software Engineer (Python)
Stealth Startup

📅 Apr. 2023 – May. 2023   📍 London, UK

I worked with a friend to set up a proto-company specialising in digital services. Our concept is based on the implementation of an AI capable of capturing the content of a meeting and generating a summary. This initiative aims to simplify and optimise meeting processes by exploiting AI and automation technologies.

- Drafting of specifications for the integration of automation tools in a 'videoconferencing' environment
- Development of automated meeting recording (audio/video)
- Development of automated robot connection for a TEAMS meeting
- Development of a detection module to ensure the presence of participants

`Python` `Selenium` `Pydub` `Docker` `Git` `Github`

Project Management Assistant
La Toile

📅 Feb. 2023 – Apr. 2023   📍 Paris, France

"La Toile" is a concept whose primary aim is to get art off the walls. This new canvas is a top-of-the-range garment, entrusted to a hand-picked group of young artists. These canvases will be reproduced in very limited quantities. Only 200 copies of each original work will be available for sale worldwide. I helped set up this innovative company with my brother.

- Based in Paris for a family-run proto-enterprise.
- Implementation of a digital site prototype (e-commerce)
- Database integration
- Implementation of the certification of authenticity of the unique product (blockchain)
- Assistance with the development of a business plan
- Assistance in setting up administrative services (Back Office: Commercial Court, INPI)

`Wix` `Blockchain` `Smart Contract` `EVM` `SQL`

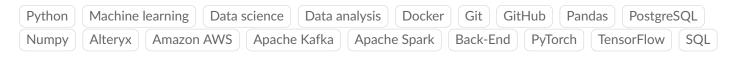### Machine Learning Engineer
Vortexa Ltd

📅 Mar. 2020 – Dec. 2022   📍 London, UK

As a member of the data production team at Vortexa, I held the position of machine learning engineer. My main responsibility was to design and implement machine learning models to generate forecasts for over 10,000 tankers tracked by our system.

- Design and implementation of machine learning models to generate forecasts for over 10,000 tankers tracked by the Vortexa system.
- Analysed tanker tracking data to generate accurate forecasts.
- Implementation of cross-validation processes to ensure the reliability and accuracy of the results.
- Optimisation of model parameters and management of training and test data.
- Evaluation and continuous improvement of the performance of machine learning models.

- Working closely with data and development teams to understand specific requirements and translate these into effective machine learning models.
- Leading a team of data scientists and data engineers to improve and deliver a new ship destination model.
- Proof of concept (POC) of a Deep Learning model in a notebook with data scientists.
- Design and implementation of the training and prediction pipeline for historical data in batch and streaming data in production.
- Live prediction (streaming pipeline) of a ship's next destination, for a panel of more than 10,000 ships, with an accuracy of around 75

`Python` `Machine learning` `Data science` `Data analysis` `Docker` `Git` `GitHub` `Pandas` `PostgreSQL` `Numpy` `Alteryx` `Amazon AWS` `Apache Kafka` `Apache Spark` `Back-End` `PyTorch` `TensorFlow` `SQL`

Data Engineer

Vortexa Ltd

📅 Sep. 2019 – Mar. 2020   📍 London, UK

I worked in the data production team at Vortexa Ltd, a start-up based in London, UK, specialising in providing forecasts of tanker movements. Our aim was to design an ETL data pipeline from a variety of sources to meet the data needs of our internal customers.

- Building an ETL data pipeline to transform and load large-scale data.
- Optimisation of the ETL data pipeline to improve the performance and efficiency of data processing.
- Documenting and sharing best practice in building and maintaining the ETL data pipeline.
- Implementation of a data ingestion monitoring system to ensure the quality and consistency of data flows.
- Regular monitoring of key metrics and indicators to assess the performance of the data pipeline and take steps to improve where necessary.
- Use of the Alteryx tool to facilitate data extraction, transformation and loading tasks.
- Collaboration with data and development teams to understand specific needs related to the ETL data pipeline..
- Creation of a complex pipeline for various data sources: email, web scraping, extraction via API. Standardisation of over 10,000 entries per day.
- Normalisation and Mapping of textual data combining automatic text recognition from a pre-trained and fine-tuned model using data supplied by expert analysts in the field.

`Alteryx` `Python` `Numpy` `Pandas` `Amazon AWS` `Apache Spark` `Git` `GitHub` `Hadoop` `PostgreSQL` `Power BI` `Tableau`

Defence & Security Consultant

Sopra Steria Consulting

📅 Mar. 2018 – Août 2018   📍 Paris, France

Within the context of aeronautical maintenance in operational conditions, our mission consisted of working closely with senior officers of the French army to determine the requirements and implement the functional mappings of a new information system.

- Definition of the functional requirements of the new information system based on the needs identified.
- Designing and implementing functional mappings to translate the requirements into technical specifications.
- Working closely with the French Army's senior officers to understand their specific needs in terms of aeronautical maintenance in operational conditions.
- In-depth analysis of existing maintenance processes and identification of gaps and opportunities for improvement.
- Full documentation of functional mappings, processes and technical specifications to ensure traceability and understanding of the information system.

`Excel VBA` `Python` `Microsoft Excel` `Microsoft PowerPoint` `Power BI` `Tableau`

EDUCATION

Master in Data Sciences and Business Analytics **(DSBA)**
ESSEC Business School - CentraleSupélec Engineering School

📅 2018 - 2019   📍 Paris, France

Specialisation in both Data Sciences and Business Analytics. With courses in machine learning, deep learning, reinforcement learning, network analysis, optimization, and big data for marketing.

MEng in Logistics and Production Systems
Isae - Supméca

📅 2015 - 2018   📍 Paris, France

3-years 'Grande Ecole' engineering curriculum.

Preparatory Classes
Lycée Thiers

📅 2012 - 2015   📍 Marseille, France

Three year selective and intensive scientific curriculum (Mathematics and Physics) preparing for the national competitive examination to French Engineering Graduate Schools « Grandes Ecoles ».