

# ARTHUR DEGONDE

## Senior Machine Learning Engineer

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in arthurdegonde

ArthurD1

## EXPERIENCE

### Machine Learning Engineer

#### Vortexa Ltd

📅 Sep. 2019 – Nov. 2022

📍 London, UK

Part of the Data Production Team, responsible for designing and implementing machine learning models to generate forecasts about more than 10,000 tankers tracked by our system.

### Defense and Security Consultant

#### Sopra Steria Consulting

📅 Mar. 2018 – Aug. 2018

📍 Paris, France

Determine the needs and implement functional mappings for a new information system with senior French army officers for the aeronautical maintenance in operational conditions.

### Intern - Supply Chain Analyst

#### Berluti

📅 Sep. 2016 – Feb. 2017

📍 Paris, France

- Implemented various decision support tools for production planning and inventory management.
- Computed a re-balancing tool for worldwide stocks management.

## 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

#### 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 ».

## PROJECTS

### Vessel Destination Model

#### Vortexa Ltd

- Led a team of both data scientists and data engineers to improve and deliver a new vessel destination model.
- POC of a deep learning model in a notebook with data scientists
- Design and implementation of both the training and the prediction pipeline for both historical batch data and live streaming data in production.

### ETL pipeline for external data

#### Vortexa Ltd

- Gather and normalise data from diverse sources.
- Use and improve an existing mapping service to map the received data to our own entities.

### Bitcoin Network analysis

#### DSBA

- Analysis of failures and attacks repercussions on a decentralised Bitcoin trading platform.
- Clustering, Modularity analysis, trustfulness calculation for each node of the network.

### Predicting Football matches outcome with historical data

#### DSBA

- Data cleaning and features engineering over a dataset of more than 26 000 matches.
- Trained different calibrated multi-class classifier with regularization and PCA and successfully obtained more accurate odds than bookkeepers.

## SKILLS AND STRENGTHS

### Computer Science and Dev Ops

Python TensorFlow MIFlow Airflow  
AWS Athena PostgreSQL Kubernetes  
Kafka Apache BEAM Flink

### Languages

- French: native
- English: fluent
- Spanish: intermediate

### Hobbies

skiing wind surf board games running