

# LUCA CAMBIAGHI

## Data Scientist

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## EXPERIENCE

### Data Scientist

#### Maersk Line

Jul 2019 - present

Copenhagen, DK

Full-time job in the Demand Forecasting team. My unique profile is that of a Data Scientist with strong Software Engineering skills.

Main responsibilities:

- Development of an internal forecasting library to perform forecasting, model selection and hyperparameter tuning of all our forecasts (~100.000 time series daily)
- Univariate and multivariate time series modelling and feature engineering
- Big data manipulation (~hundreds of millions of rows)

### MSc Thesis Intern

#### Maersk Line

Jul 2018 - Jul 2019

Copenhagen, DK

Full-time internship during which I wrote my Master Thesis "Forecasting Liner Shipping Demand". Worked in close contact with the Demand Forecasting team and the Data Science community at Maersk.

Main research topics:

- ARIMAX models
- High-dimensional ARX models, spatio-temporal relationships, grouped LASSO regularization
- Feed forward neural networks, categorical embeddings

### IT Student

#### Maersk Line

Jun 2018 - Feb 2017

Copenhagen, DK

Part-time job during my Master studies. Main responsibilities:

- Java development
- Service monitoring, performance analysis
- User journey mapping

### Consultant Intern

#### Be Consulting

Mar 2016 - Jun 2016

Milan, IT

Full time internship that concluded my Bachelor studies.

Main responsibilities:

- Excel and VBA development
- Word documentation
- Consultancy fundamentals and stakeholder management

## PROGRAMMING

Python ●●●●●

Java ●●●●●


R ●●●●●


Clojure ●●●●●


## SKILLS


Forecasting Machine Learning  
Neural Networks Data Docker  
Kubernetes Pyspark Dask  
Functional Programming Algorithms

## ACHIEVEMENTS

 **Maersk Star Award**  
Personal award for being the major driver and contributor of our internal forecasting library.

 **Maersk Spot Award**  
Awarded to the whole Demand Forecasting team for delivering outstanding results during the COVID-19 lockdown.

 **Student Ambassador**  
Member of steering committee of Maersk's student network. Helped new hires to feel welcome and organized social events.

 **Buddy Program**  
Helped extra-european students to kickstart their university life in Milan and at Politecnico.

## STRENGTHS

Curious Ambitious Eye for detail  
Team player Presenter Dynamic  
Empathic Independent

## EDUCATION

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### M.Sc. Computer Science Engineering

Danmarks Tekniske Universitet

📅 Sep 2016 - Feb 2019

📍 Copenhagen, DK

Main competences acquired:

- Data analysis and visualization, Pandas and Matplotlib
- Deep learning, Keras
- Big Data, Spark
- AI & Multi-agent systems, Java
- Web Services, Java

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### B.Sc. Computer Science Engineering

Politecnico di Milano

📅 Sep 2016 - Feb 2019

📍 Milan, IT

Main competences acquired:

- Programming, C
- Databases, SQL
- Software Engineering, Java
- Engineering fundamentals: Statistics, Mathematical Analysis, Linear Geometry, Physics

## PROJECTS

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### Background audio event classification

Danmarks Teknisk Universitet

📅 Nov 2017 - Dec 2017

📍 Copenhagen, DK

Final project of the course Deep Learning. Trained a Convolutional Neural Network to perform classification of urban sounds. The dataset used was UrbanSound8K.

- Implemented a state-of-the-art model and reproduced results
- Created two synthetic datasets by overlaying different clips: with same volume and one dominating the other
- Multi-label classification using these two datasets

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### Sokoban multi-agent level solver

Danmarks Teknisk Universitet

📅 Apr 2017 - May 2017

📍 Copenhagen, DK

Final project of the course Artificial Intelligence and Multi-Agent Systems. We developed a Java client capable of solving Sokoban levels by planning a valid short solution.

- Local planning of a single agent to find the solution
- Implemented a communication system between agents to plan cooperatively
- Designed a conflict resolution mechanisms to merge the agents' plans

## INTERESTS

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Diving

Running

Cinema

Road Biking

Reading

Traveling

Emacs

Clojurescript

## LANGUAGES

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Italian



English



Spanish



Danish

