

# Thomas Lentali

DATA SCIENTIST

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## Summary

Data Scientist with 7+ years experience specializing in machine learning across diverse fields, including personalization/recommender system, search engine relevance, bot detection, NLP, computer vision, financial fraud, gambling addiction, lifetime value prediction. My primary goal is to transform abstract knowledge into practical solutions. I'm an open-minded enthusiast who maintains expertise through helping my peers (mainly by answering questions on StackOverflow), competitions (Kaggle competition expert) and open source contributions. While passionate about data science, I also advocate Google's Machine Learning Rule #1: "Don't be afraid to launch a product without machine learning".

## Work Experience

### Betclic Group

Bordeaux, France

DATA SCIENTIST

Jun. 2019 - current

- Sport betting and casino personalization/recommender system (hybrid recommendations approaches).
- Anti Money Laundering detection (ACAMS Certified Anti-money Laundering Specialist).
- Responsible gambling (addiction behavior) detection (classification).
- Lifetime value prediction (BTYD).

Using : Python (Pandas, Scikit-learn, Pytorch, Tensorflow/Keras, Shap, Pytest, Great Expectation), Apache Airflow, AWS Sagemaker, Snowflake.

### Cdiscount

Bordeaux, France

DATA SCIENTIST ADVISOR

Nov. 2018 - Mai. 2019

- Massive customer clustering.
- Bot detection (pattern analysis).
- Sentiment analysis (Natural Language Processing).
- Object detection in picture (Mask-RCNN, MSCOCO dataset).

Using : Python (Scikit-learn, Numpy, Pandas, Scipy, Shap, Luigi), SQL, Apache Hadoop Hive.

### Cdiscount

Bordeaux, France

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Oct. 2016 - Oct. 2018

- Search engine relevance.
- Products recommendation engine.
- Algorithms evaluation (A/B testing).
- Focus on website's KPI improvement.

### Cdiscount

Bordeaux, France

DATA SCIENTIST INTERN

Mar. 2016 - Sep. 2016

- Marketing targeting : behavioral analysis and improvement of the search engine relevance through AB test, proof of concept personalisation client (classification and clustering).
- Geographical data : Purchase forecasting by geographic zone.
- Statistical analysis : data enrichment with INSEE database, implementation and development of geocoding tool.
- Intern innovation contest : Setting of a new operational service for the client, forecasting system of product storage to allow express delivery.

### Idaia Group

Bordeaux, France

DATA SCIENTIST INTERN

Jun. 2015 - Aug. 2015

- Sourcing, implementation and development of machine learning tools (mainly multiclass classification) in Python and Scala into Apache Spark large-scale data framework.

Using : Python (Scikit-learn, Numpy, Scipy, NLTK), Scala, Spark (MLlib).

## Education

### Bordeaux University

Bordeaux, France

MSC. APPLIED MATHEMATICS

Sep. 2014 - Jul. 2016

- Optimization, operation research, machine learning, statistics, C++, Python, SQL

### Toulon University

Toulon, France

BSC. APPLIED MATHEMATICS

Sep. 2011 - Jul. 2012

- Statistics, probability, econometrics, R, Matlab/Octave

### Toulon University

Toulon, France

BSC. PURE MATHEMATICS

Sep. 2008 - Jul. 2011

- Algebra, analysis, topology, measure theory, graph theory, C, Matlab/Octave, Wolfram Mathematica