

# 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".

## Skills

<b>Computing</b>	Python, SQL, C++, C, Bash/Shell, Git/Github, Scala, Common Lisp, Matlab/Octave, Wolfram Mathematica, $\LaTeX$ , Docker, R.
<b>Data Science</b>	Pandas, Scikit-learn, Tensorflow/Keras, Pytorch, Numpy, Scipy, Statsmodels, Airflow, Streamlit, Spark MLlib.
<b>Database</b>	Snowflake, SQLite, PostgreSQL, SQLServer, Hadoop Hive, Redis.
<b>Cloud Computing</b>	AWS (EC2, S3, Sagemaker, Lambda), Microsoft Azure (Azure Machine Learning).
<b>Langages</b>	Français (langue maternelle), Anglais (compétence professionnelle avancée).

## 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).
- Safer gaming and addiction behavior detection (classification and time series).
- Lifetime value prediction (survival analysis).

Using : Python (Pandas, Scikit-learn, Pytorch, Tensorflow/Keras, Shap, Pytest), 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.

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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.

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

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### Msc. Applied Mathematics

BORDEAUX UNIVERSITY

*Bordeaux, France*

*Sep. 2014 - Jul. 2016*

- **Subjects :** Optimization, operation research, machine learning, statistics.
- **Computing :** C++, Python, SQL.

### Bsc. Applied Mathematics

TOULON UNIVERSITY

*Toulon, France*

*Sep. 2011 - Jul. 2012*

- **Subjects :** Statistics, probability, econometry.
- **Computing :** R, Matlab/Octave, SQL.

### Bsc. Pure Mathematics

TOULON UNIVERSITY

*Toulon, France*

*Sep. 2008 - Jul. 2011*

- **Subjects :** Algebra, analysis, topology, measure theory, graph theory.
- **Computing :** C, Matlab/Octave, Wolfram Mathematica.

## Certifications

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2022	<b>Certified Anti-money Laundering Specialist</b> , ACAMS	<i>ER-005116982</i>
2022	<b>TensorFlow Developer Certificate</b> , Tensor Community	<i>58980171</i>
2021	<b>TensorFlow Developer</b> , DeepLearning.AI	<i>C6G72XS8ZEMG</i>
2021	<b>Convolutional Neural Networks in TensorFlow</b> , DeepLearning.AI	<i>2SBURLZQZWKD</i>
2021	<b>Natural Language Processing in TensorFlow</b> , DeepLearning.AI	<i>PZ47PQQC2XNF</i>
2021	<b>Sequences, Time Series and Prediction</b> , DeepLearning.AI	<i>TNUAM6UVMVDX</i>
2016	<b>Machine Learning</b> , Coursera	<i>8LTXTCXDEJM7</i>

## Distinctions

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2021	<b>Top 1% Answerer 2021</b> , > 3000 points de réputation en un an.	<i>Stack Overflow</i>
2019	<b>Bronze medal</b> , Google Jigsaw - Unintended Bias in Toxicity Classification (NLP).	<i>Kaggle</i>
2019	<b>Silver medal</b> , Quora - Insincere Questions Classification (NLP).	<i>Kaggle</i>
2015	<b>Top 3%, 24th/837</b> , Cdiscount - Catégorisation de produits pour le e-commerce (classification).	<i>datascience.net</i>

## References

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### Iouri Chapochnikov

*Betclit*

CHIEF DATA OFFICER

I had the pleasure of working with Thomas on several data science projects, and I wholeheartedly recommend him. His expertise in machine learning, statistics, and mathematics is exceptional, and he consistently delivered results with projects that went into production, including high complexity, high load recommendations systems. Thomas has a unique talent for simplifying complex data science concepts, making him an excellent presenter who can effectively communicate these ideas to others. Beyond his professional skills, Thomas is a very pleasant and dedicated individual, often going above and beyond, even working on weekends. It's a pleasure to have him in my team.

### Bertrand Beauflis

*Betclit*

HEAD OF DATA SCIENCE

In addition to being technically excellent, Thomas is a very nice person. As Head of Data Science, I saw very quickly within Betclit the importance of having him in the team. Within two squads, he is the Data Science referent and facilitates communication/interactions between the stakeholders. Always curious and proactive, he manages to solve data science challenges to production, while always being available to support the development of team members' skills. Any employee/manager would be happy to work with Thomas, and not just because he brings great croissants to the office!

### Bertrand Warot

*Ejara, ex-Betclit Data Manager*

HEAD OF DATA

Thomas is a gem! I have had the pleasure to manage and work with him on several projects. His fast learner and adapted quickly to the specificities of our industry. His deep scientific knowledge along with his coding skills are his strongest assets (and two of the most important skills for a data scientist). I also have been amazed by the creative approaches he has to rather common issues, always willing to test new ideas, which paid most of the time. He is definitely passionate about Data Science and Mathematics, and loves to share his knowledge and make it accessible to everyone. I would be glad to have the occasion to work with him again in the future!