

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

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

DATA SCIENTIST

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

Msc. Applied Mathematics

BORDEAUX UNIVERSITY

Bordeaux, France

Sep. 2014 - Jul. 2016

- **Subjects :** Optimization, operation research, machine learning, statistics.
- **cvitems :** 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

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

Distinctions

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

References

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!