

Théo Verhelst - Résumé



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Projects github.com/TheoVerhelst

Summary

PhD student in causal machine learning for churn prevention, autonomous and always seeking to know more. Strong experience of programming and team work. Interested in various computer science fields, such as machine learning, causal analysis, information theory, probability and statistics.

Education

2018 - 2019

2nd year of Master in Computer Science at Université Libre de Bruxelles

Master thesis: *Churn Prediction and Causal Analysis on Telecom Customer Data*. Awarded the Raymond Devillers prize for best master thesis.

Average mark: 18.2 / 20, with Grande distinction

2017 - 2018

1st year of Master in Artificial Intelligence at Southampton University, Erasmus Programme

Average mark: 16.4 / 20

2014 - 2017

Bachelor in Computer Science at Université Libre de Bruxelles

Bachelor thesis: *Pitch Shifting of Music Signals*

Average mark: 15.65 / 20, with Grande distinction

Employment History

2020-2024

PhD student at Machine Learning Group (ULB)
Thesis: Causal machine learning for telecom churn prevention

2019-2020

Researcher at Machine Learning Group (ULB)
Research topic: transfer learning for fraud detection

2018

Back-end programmer at Open Summer of Code 2018
project: 2018.summerofcode.be/openparking

Languages

French First language

English Fluent

Skills

Machine Learning

Supervised/unsupervised learning, feature selection, model evaluation, churn prediction, causal analysis, clustering, deep learning

Programming

Java, C++, C, Python, R, Bash, Clojure, Matlab

Web Development

HTML5, CSS3 (SASS), JavaScript (Jquery), SQL, PHP, Bootstrap, Django

Others

Agile development, GNU/Linux, assembly language, \LaTeX

Publications

Understanding Telecom Customer Churn with Machine Learning: From Prediction to Causal Inference

Verhelst, T., Caelen, O., Dewitte, J. C., Lebi-hot, B., & Bontempi, G. (2019). In Artificial Intelligence and Machine Learning. BNAIC 2019, BENELEARN 2019. Communications in Computer and Information Science, vol 1196. Springer, Cham.