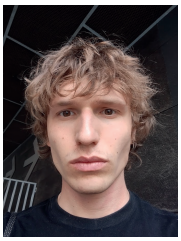

Louis Van Langendonck

Data Scientist & Physicist

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Personal Profile

I am an international computer science student with a background in Physics intrigued by AI and its diverse applications. Currently, I am finishing my studies while interning as a Statistical Modeller at the Instituto de Ciencias del Mar (ICM).

As my studies are coming to an end, I am carefully looking for fundamentally challenging, research-oriented and useful projects in either the industry or academics. I am particularly interested in the mathematical and statistical structures at the root of modern techniques like deep learning and distributed systems.

Education

2018 > 2021 BA in Physics and Astronomy: Free University Brussels (VUB): Magna cum laude - Average of 8 out of 10

2021 > 2023 Msc in Data Science: Universitat Politècnica de Catalunya (UPC): Current average of 8.65 out of 10

Experience

2022 > 2023 Research Intern Statistical Modeller: CSIC Instituto de Ciencias del Mar (ICM) 'Centre of Excellence': Investigating the stability of a cutting-edge plankton simulation model under extreme climactic perturbation stress. This experience highlights my interest in combining rigorous mathematical frameworks and powerful, real-world problems. This project is a result of being awarded the JAE Research Grant ICU.

Technical Skills

Programming Languages: Python, Matlab, R, Javascript

Data Management Tools: SQL, library of NoSQL tools (MongoDB, Hbase, GraphDB, Neo4J, ...)

Distributed Processing Tools: Spark, Pregel, ...

Applied Mathematics: Strong Mathematical Base (Physics, Statistics, Computer Science)

Machine Learning: Algorithms and Libraries including Deep Learning

Research Interests

Applied Statistical Modelling: Given my background in Physics, I love investigating and building abstract models of my surrounding, ideally combining it with machine learning . Some of my favourite application fields are in Physics, Biology and Earth Sciences.

Deep Learning: I am fascinated by the architecture of modern deep learning techniques like transformers and convolutional neural networks as well as its typical use cases: Natural Language Processing (NLP) and Computer Vision (CV).

Language Skills

English

Dutch

French

Spanish