

# Tommaso Lo Sterzo



## SUMMARY

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I graduated in philosophy in November 2018. My interests in philosophy have always been at the limits of the physical and mathematical sciences. In particular, I have been interested in probability, philosophical interpretation of physical theories, logic and philosophy of logic. After these years of studying philosophy, I decided to deepen the quantitative aspect of my interests. In particular, I have tried to build a good base of analysis and geometry and have further deepened some aspects of mathematical logic. During this period I approached the world of Big Data and Machine Learning and so I decided to enroll in the master offered by the University of Pisa, where I am learning its methods. The construction of predictive models and the use of other techniques learned are now my passion. For this reason my desire is to work in a company in the sector to deal with Data science full time.

## EDUCATION

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01/20-present

**Master in Big Data Analytics & Social Mining – University of Pisa - Computer Science Department – Pisa (Italy) di Pisa.**

Projects Carried out:

*PIMA Indians Dataset Analysis*

In this project I used supervised machine learning algorithms to predict the onset of diabetes in female patients. In addition, I used various unsupervised algorithms to see if there were groupings between patients and I did use pattern mining to search for associative rules. to

investigate possible relationships between specific features values of different records.

Methodologies Used:

- Unsupervised Machine Learning: K-Means, DBSCAN and Hierarchical Methods (Single, Complete and Average Link).
- Supervised Machine Learning: Decision Tree, Random Forest.
- Pattern Mining: Apriori algorithm.
- Programming language : Python3.
- Main libraries used: pandas, numpy, scikit-learn, seaborn and fim.

*Customer Segmentation from an e-commerce transaction*

The objective of the project was to extrapolate a possible segmentation from the data of an e-commerce customer base based on the individual's purchasing behavior customer.

Methodologies Used:

- Unsupervised Machine Learning: K-Means.
- Methods of parallelization with distributed resources: PySpark.
- Programming language : Python3.
- Main libraries used: pandas, numpy, scikit-learn, seaborn, PySpark, Mllib.

*Characterization of Citizen's Neighborhoods*

Project currently ongoing.

Methodologies Used:

- Data Mining techniques.
- Unsupervised Machine Learning: Clustering.
- Supervised Machine Learning: Regression.

09/19-12/19

**PhD in Analytic Philosophy – research branch in the CCil Language and Cognitive Science PhD program, “Universitat de Barcelona” - Barcelona (Spain)**

Subject: *modal logic*

Member of *LOGOS* research group

Declined for economic reasons

09/16 –28/11/18

**Master of arts in Philosophical sciences – Philosophy of science, “Roma Tre” University of Rome – Roma (Italy)**

- final mark: **110/110 cum laude**

Master degree dissertation:

*The interpretation of probability in Quantum Mechanics*

Supervisors: Prof. Mauro Dorato

Prof. Matteo Morganti

09/12 – 03/16

**Bachelor of Arts in Philosophy, “La Sapienza” University of Rome– Roma (Italy)**  
**-final mark:101/110**

Bachelor degree dissertation:

*L’irrealità del tempo: McTaggart e Gödel a confronto*

Supervisor: Emiliano Ippoliti

09/06 – 7/12

**Classical high school diploma, Liceo T. Tasso – Roma (Italy)**

## COMPUTER SCIENCE SKILLS

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Software                      Microsoft Office package

Programming Languages      Python ▪ R ▪ SQL

## LANGUAGE SKILLS

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Italian                      Mother tongue

English                      Fluent

**IELTS academic certification (date: 05/01/2019) overall band score: 6.5**

## AREAS OF INTEREST

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Data Science and Machine Learning ▪ Deep Learning ▪ Data Science for Social Good ▪ Predictive Modeling ▪ Probability ▪ Logic

## PERSONAL SKILLS

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Communication skills      Good communication skills and ability to understand and present others' points of view gained through my daily interactions, my teamwork experiences in academic projects and my job experience.

Soft skills                  Problem solving ▪ Solution-focused ▪ Detail-oriented ▪ Versatile  
Curiosity ▪ Proactive planner

## WORK EXPERIENCES

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03/19 – 06/19              Postman, *Poste Italiane*, Rome, Italy  
Renewal refused for career reasons

02/18 – 08/18              International Exchange Erasmus+ program, Universitat de Barcelona  
Attending two courses in "Master of Analytic philosophy":  
Foundations of Philosophy of science (Hoefer C., Vassallo A.)  
Philosophical Logic (Marti G., Martinez J.)  
Writing Master thesis

## ADDITIONAL INFORMATION

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Personal interests                                  Traveling ▪ Cinema ▪ Playing football ▪ reading

Other information                                      Willingness to travel abroad ▪ Driving licence: B