



Luca Barbaro

EDUCATION AND TRAINING

01/06/2022 – CURRENT

PHD STUDENT IN COMPUTER SCIENCE Sapienza University of Rome

Topic: Process Mining and Blockchain Technologies
Supervisor: Professor Claudio Di Ciccio

Publications: Measuring Rule-based LTLf Process Specifications: A Probabilistic Data-driven Approach.
Alessio Cecconi, Luca Barbaro, Claudio Di Ciccio, Arik Senderovich [<https://arxiv.org/abs/2305.05418>]

01/02/2023 – CURRENT

MASTER IN CUSTOMER EXPERIENCE, STATISTICS, MACHINE LEARNING & ARTIFICIAL INTELLIGENCE (II LEV.)

University of Tor Vergata

Python Programming

Datasets Manipulations with Python. Python Libraries: Numpy, Pandas, Keras, Tensorflow, Scikit-learn, Matplotlib. SQL

Advanced Statistical Reasoning

Linear model, Generalised linear models, Latent variable models (factor analysis), Data reduction (cluster analysis and principal component analysis)

Data Mining and Machine Learning

Supervised and Unsupervised learning methods, Model selection and evaluation techniques, Machine learning with Python

SAS Programming

SAS Base Programming, SAS Visual Statistics in Viya, SAS Visual Data Mining & Machine Learning with SAS Viya, Integration between SAS and open source on Advanced Analytics

Artificial Intelligence and Deep Learning

Deep Learning fundamentals, Neural Networks, Convolutional Neural Networks, LeNet , ResNet, FeatureMap, Kernal.

Big Data Exploration and Visualisation

Hadoop, Spark.

Text Mining and Sentiment Analysis

Text mining (wordcloud), R interface (Iramuteq), R libraries (sna, igraph), Social Networks Analysis

Marketing Automation and Customer Intelligence

SAS Marketing Automation: Designing and Executing Outbound Marketing Campaigns, Real Time Decision Management, SAS Customer Decision Hub, Marketing Optimisation, Real Time Decision Management.

Field of study Information and Communication Technologies

30/09/2018 – 25/07/2021

MASTER'S DEGREE: BUSINESS ECONOMICS (LM-77) Sapienza University of Rome - Department of MEMOTEF

Field of study Business, administration and law | **Final grade** 109/110 |

Thesis "Machine Learning in Finance: a neural network for economic and financial forecasts"

30/09/2015 – 05/12/2018

BACHELOR'S DEGREE: BUSINESS ECONOMICS (L-18) Sapienza University of Rome - Department of MEMOTEF

31/08/2010 – 30/06/2014

SECONDARY SCHOOL DIPLOMA: CLASSIC HIGH SCHOOL Liceo Classico Pio XI, Rome, Italy

WORK EXPERIENCE

31/12/2021 – 31/05/2022

CONSULTANT KPMG ITALY

My job as a consultant consisted in:

- Revision of the model and of the planning and control processes also for the purposes of compliance with the reference regulations for companies listed on the stock exchange and for public interest entities;
- Support in defining new roles and responsibilities within the organisation, in the light of existing projects; identification of the main operational and management innovations; analysis of the main critical factors underlying the change;
- Preparation and monitoring of the activity plan, preparation of the implementation phases among the Business and IT Stakeholders;
- Support in the preparation of the financial reporting required in the context of transaction services projects or extraordinary operations.

30/06/2020 – 30/12/2021

ACCOUNTANT C.O.N.I.

My job consisted in controlling of accounting documentation and recording journal entries, expense reporting, auditing and controlling budgets and final balancing of sports activities.

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Programming

Python Programming | R Programming | SAS Programming | SAS (SAS Viya)

Others

Microsoft Office | Matlab | SAP FI/CO

● ADDITIONAL INFORMATION

HOBBIES AND INTERESTS

Saint Louis College of Music - Rome, Italy Professional diploma course in Rock / Blues guitar.

I authorise the processing of my personal data in accordance with current legislation.

Rome , 05/06/2023

Luca Barbaro