



## ZARMINA URSINO

Data Scientist – Artificial Intelligence  
Engineer – Cloud Data Engineer

### CONTACTS

E-mail  
ursinozarmina@gmail.com  
Phone  
+39 3455794672  
LinkedIn  
www.linkedin.com/in/zarminaurisino  
Projects  
https://github.com/Zarmina97

### FIELD OF INTEREST & PROJECTS

- Cognition and neuroscience
- Big Data
- Combinatorial decision making and Optimization
  - VLSI wrapping problem – Python, MiniZinc and SMT with Z3 solver
- Fundamentals of AI and knowledge representation
  - Bayesian Network to model behavioural risk factors on cardiovascular diseases – pgmpy
  - NAO Challenge: FastFrequencyNAO, robot dance
- Image processing and Computer Vision (CV)
  - Fruit Inspection, system aimed at locating defects and imperfections on fruits – Python
  - Hand gestures recognition - Python
- Languages and algorithms for AI
- Machine Learning (ML) and Deep Learning (DL)
  - Recognition of human activities through eSteps insoles - Python
- AI in Industry
  - Discriminately Boosted Clustering (DBC) - Python
- Blockchain and Cryptocurrencies
  - Top 3 crypto volatility prediction through LSTM and GARCH model - Python and Solidity
- Ethics in AI
  - The GDPR in AI and the Age of Big Data
- Machine Learning for CV
- Natural Language Processing (NLP)
  - Success prediction of Instagram Post - Python
- Project management and soft skills
  - Urban Farming with Hydroponics – Work plan with Pert and Gantt chart

### PERSONAL SKILLS

- Clear communication
- Observance of deadlines
- Working under stress
- Creativity
- Flexibility
- Organization
- Attentiveness
- Analytical skills
- Problem solving

### JOB PROFILE

As an Engineer, I am passionate about using technology to solve real-world problems. With a Master's degree in Artificial Intelligence from the University of Bologna and a Bachelor's degree in Computer Engineering from the University of Catania, I have the technical skills and expertise to develop innovative solutions that leverage the power of machine learning, computer vision, and natural language processing. In addition to my academic qualifications, I have also gained practical experience as a Math, Physics, and French tutor and as a collaborator in an office, where I was responsible of digital administrative practices. Beyond my technical expertise, I am also deeply passionate about politics and the impact that technology can have in this area. In my free time, I enjoy staying up-to-date on current political events and engaging in discussions about potential solutions to some of the most pressing issues facing society today.

### WORK EXPERIENCE

- 05/2023 – present **CLOUD DATA ENGINEER IN BIP (BUSINESS INTEGRATION PARTNERS)**  
Full-time
- 10/2021 – 05/2023 **DATA SCIENTIST/AI ENGINEER IN ESTEPS INC.**  
Internship for Master Thesis in American Bologna-based company eSteps Inc.  
Tasks performed: acquisition protocol, data pre-processing, development and optimization of ML and DL models. Scientific paper under preparation.
- 10/2016 – 12/2022 **MATHS, PHYSICS AND FRENCH TUTOR**  
Superprof and LeTutLezioni platforms.
- 12/2017 – 12/2022 **COLLABORATOR IN 'CAF' OFFICE**  
Digital management of administrative practices (eg. Namirial SPID)
- 03/2017 – 06/2017 **TRAVEL WRITER**  
3 months stage in Catania in Social Writers Association.

### EDUCATION

- 22/05/2023 – present **MASTER II LEVEL IN CLOUD DATA ENGINEERING**  
BIP .xTech partnership with CEFRIEL – POLITECNICO DI MILANO
- 21/09/2020 – 03/02/2023 **MASTER'S DEGREE IN ARTIFICIAL INTELLIGENCE**  
ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA  
Thesis: "Recognition of human activities through eSteps insoles".
- 03/10/2016 – 05/06/2020 **BACHELOR'S DEGREE IN COMPUTER ENGINEERING**  
UNIVERSITÀ DEGLI STUDI DI CATANIA  
Thesis: "Extension of the MIPS Instruction Set Architecture oriented to the optimal execution of Convolutional Neural Networks (CNN)".
- 09/2011 – 07/2016 **PRE-UNIVERSITY STUDIES**  
GALILEO GALILEI SCIENTIFIC HIGH SCHOOL  
Double diploma, recognized in Italy and in French-speaking countries.

### DIGITAL COMPETENCES

**Highly Specialised:** Python, R, SQL-MySQL-SPARQL, Machine Learning (ML), Deep Learning (DL), Natural Language Processing (NLP), Scala, Computer Vision, OpenCV, Keras, Tensorflow, Data Visualisation, Matplotlib, Matlab and all Microsoft Office Components.

**Advanced:** Assembly (Mips and Intel8086), VHDL, C, HTML-CSS-Javascript, Java, Solidity (Blockchain), Minizinc, PHP, Prolog, Z3 solver

### LINGUISTIC COMPETENCES

**Italian:** Native Language

**English:**

- Certificate of attendance C1 level with 86% of score, 2020
- B2 certificate, 2016

**French:**

- High school diploma (*Baccalauréat*) at Galileo Galilei High School in Catania, 2016
- B2 DELF certificate, 2015
- Experience abroad: stage of 1 month in Lorient (Bretagne, France), 2014

**Basic Hindi and Créole pidgin**

### PROFESSIONAL ACCOLADES AND AWARDS

**Deep Fridays**, convention organized by Prof. Andrea Asperti. Presentation of eSteps Inc. 18/11/2022

**ANISA Olympics 2015**, interview to the photographer Letizia Battaglia, Palermo. GRADING IN LIST: 5  
Literary contest 'Maria Teresa Apuleio', 1st edition. GRADING IN LIST: 1