



Stefano Zizzi

✉ zizzi.stfn@gmail.com

in [zizzi-stefano](#)

🔄 [itsPinguiz](#)

Professional Profile

Developer and aspiring AI Engineer with a strong passion for data-driven innovation. Currently specializing at Politecnico di Torino, I possess solid skills in Deep Learning, Computer Vision, and backend development. I combine strong analytical skills with a proven aptitude for problem-solving and teamwork, enriched by an active commitment to social causes and university representation.

Education

Politecnico di Torino

Sept 2024 - Present

M.Sc. in Computer Engineering - Artificial Intelligence and Data Analytics

Turin, Italy

- **Competencies:** My studies focus on the technological and theoretical aspects of big data analysis, acquiring expertise in machine learning algorithms, deep learning, and AI. I pay particular attention to the mathematical foundations of analysis techniques, big data processing technologies, distributed computing systems, and advanced deep learning architectures.

Coursera - Stanford University

Sept 2022 - Oct 2022

Machine Learning Specialization

Online

- **Competencies:** Modern machine learning concepts, including supervised learning (linear regression, logistic regression, neural networks, decision trees), unsupervised learning (clustering, anomaly detection), recommender systems, and reinforcement learning. Practical skills in applying ML techniques to complex real-world problems.

University of Urbino "Carlo Bo"

2021 - Oct 2024

B.Sc. in Applied Computer Science (Final Grade: 107/110)

Urbino, Italy

- **Competencies:** Proficient in various programming paradigms, algorithm design, and software engineering. Experienced in database management, software validation methods, and the design/maintenance of networks and information systems. Developed skills in web and mobile application development and open-source software integration.
- **Experimental Thesis ("Integrating Data-Driven Rules into Human Activity Classification via Deep Learning"):** The research aimed to improve the accuracy of Human Activity Recognition (HAR) without increasing device energy consumption. It proposed a novel approach integrating data-derived rules into the deep learning process, maximizing existing resources to avoid additional sensors or computational complexity, addressing sustainability and mobile usability.

Experience

University of Urbino "Carlo Bo"

Sept 2023 – Sept 2024

Curricular Internship

Urbino, Italy

- Conducted research focused on data analysis and the development of a Machine Learning model for Human Activity Recognition (HAR) optimized for smartwatches. The project focused on improving activity identification through rule extraction.

Projects

Minerva (Wardrobe ML Backend) | Python, PyTorch, Computer Vision, ResNet-50

Jan 2026 - Present

- Developing a multi-head classification model in PyTorch based on a ResNet-50 backbone for simultaneous recognition of clothing category, color, and season.
- Built a modular backend for ML training and inference, integrating OmegaConf for dynamic parameter management and uv for optimized environment management.

MAAS-Road-Scenes | Python, PyTorch, Deep Learning, Computer Vision

Dec 2025 - Present

- Developed an anomaly segmentation system for road scenes based on Mask architectures (EoMT), focusing on the identification of "Out-of-Distribution" objects in autonomous driving contexts.
- Integrated and adapted ERFNet models and Dinov2 backbones for semantic and panoptic segmentation on complex datasets like Cityscapes.

CLARITY | Python, NLP, Transformers, SemEval

Dec 2025 - Present

- Participated in the SemEval 2026 challenge focused on the automatic identification of evasions in responses to political questions.
- Analyzed and modeled the QEvasion dataset (HuggingFace) to uncover linguistic evasion strategies in debates.

Door Detection Sensor | Arduino, HTML, CSS, JavaScript, MySQL, PHP, Apache, SSL

May 2024 - June 2024

- Developed a distance monitoring system using an HC-SR04 ultrasonic sensor and an ESP32 microcontroller, featuring a real-time data visualization web dashboard.
- Gained expertise in ESP32 programming, interactive web dashboard development, MySQL database management, REST API creation with PHP, and Apache server configuration with SSL implementation.

Farming Simulator | Java, Reflection, Maven, Git

Sept 2021 - Dec 2021

- Developed a farm simulator application where players can switch between Farmer and Landowner roles to experience full farm management.
- Enhanced Java skills using advanced libraries (Reflection) and tools like Maven and Git, while improving collaborative skills through GitHub.

Technical Skills

- **Programming Languages:** Python, Java, C, Rust
- **Markup/Formatting:** HTML, CSS, $\text{\LaTeX}$
- **Technologies:** MySQL, Git (GitHub), Apache, Docker, Linux
- **Concepts:** Object-Oriented (OOP), Functional and Procedural Programming, Data Structures, Algorithms, Microcontroller Programming, Web Applications, Machine Learning, Supervised Learning (Linear/Logistic Regression, Neural Networks, Decision Trees), Unsupervised Learning (Clustering, Anomaly Detection), Recommender Systems, Reinforcement Learning.

Certifications and Honors

- **Cambridge English:** Advanced Certification (C1)
- **Student Representative** for the Bachelor's in Computer Science within the Joint Teachers-Students Committee
- Winner of the **Fondo Giovani 2021** (Youth Fund) – University of Urbino
- **Merit Scholarship 2021–2024** – ERDIS – Marche Region

Extracurricular Activities

- **Member**, PolitoRUN student association (2025-Present)
- **Member**, Rotaract Urbino Campus University (2023-2024)
- **Member**, Dynamo Urbino Chess Club (2023-2024)
- **Organizer**, student mental health events (2024, Urbino), including the "Come Stai?" (How Are You?) festival.
- **Blood Donor**, "Nicola Scarnera" Association for microcitemic children.
- **Sports:** Chess, Swimming, Snorkeling, Volleyball.