



Sara Cavallini

Date of birth: 2000

Nationality: Italian

Contact

📍 Bergamo, Italy (**Home**)

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ABOUT MYSELF

Computer Engineering graduate, passionate about **Computer Vision** and enthusiastic about **managing and guiding technical teams**. I bring hands-on experience in software development and system integration, and I thrive in dynamic environments where technical excellence and teamwork drive innovation.

WORK EXPERIENCE

● **KOAN** Bergamo, Italy

AI Project Manager (Computer Vision)

21/12/2025 - Current

- Led a small technical team, defining tasks, priorities, and timelines
- Managed end-to-end AI and Computer Vision projects, from requirements to production
- Developed and validated solutions for anomaly detection, object classification, and real-time video analysis
- Supported technical decisions on computer vision models, architectures, and pipelines
- Ensured alignment between business objectives, development activities, and delivery milestones
- Worked hands-on with neural networks, machine learning, image processing, and computer vision

● **Alknow srl** Bergamo, Italy

Data Scientist

31/01/2025 - 01/12/2025

Specialized in AI and machine learning with hands-on experience in:

- Computer Vision: object detection, classification, and anomaly detection using YOLO, ResNet, RCNN, CLIP, DINO, GANs.
- Facial & Emotion Recognition: real-time analysis with MediaPipe, FaceTec, LibreFace.
- Time Series Forecasting: ARIMA, LSTM, XGBoost, Prophet for predictive analytics.
- NLP & Semantic Search: text classification and intelligent document filtering with spaCy, S-BERT, Ollama.
- OCR & Data Extraction: automated information extraction using Keras-OCR, DocTR, Donut, OpenCV.

Frameworks: PyTorch, TensorFlow/Keras, OpenCV, Pandas, NumPy.

● **KOAN** Bergamo, Italy

Junior Embedded Linux Engineer

02/2024 - 02/2025

Linux BSP customization using Yocto Project. Adapting embedded linux system configurations to customer requirements. Developing user space applications using C/C++.

- Knowledge of embedded software systems
- Linux embedded system integration
- Yocto Project BSP customization
- Systemd services creation and integration
- Auditd
- C/C++ software development
- Bash and shell script development

● **Student council** Bergamo, Italy

Event Organization Manager

2023 - 2025

Coordinated teams to plan and manage cultural, social, and academic events for the university community. Oversaw logistics, promotion, and resource management to ensure successful execution, while collaborating with external organizations and university groups on joint projects.

EDUCATION

● **2019 - 2023**

Università degli Studi di Bergamo

Bachelor's degree in Computer Engineering

● **2014 - 2019**

High School

SKILLS

COMPUTER SKILLS

C++ | Linux (Terminal Commands, Bash/Shell) | Embedded Linux: Yocto Project | R | systemd | GIT version control, Linux Command | Python | Web Development (Python/Django) | Html, Css, Bootstrap | C | MATLAB | Java | SQL | AWS (base) | Arduino | Assembly MIPS | Microsoft Office Packages

DATA SCIENCE AND AI MODELS

YOLO | ResNet | Deep Neural Networks (CNNs, GANs) | Pytorch, Tensorflow | Object Detection | Image Segmentation | Adam Optimizer | Computer Vision | Statistics | OpenCV | Label Studio | EfficientNet | Bayesian Optimization | Machine Learning

EDUCATION & TRAINING

01/12/2026

● **Complete Data Science, Machine Learning, DL, NLP Bootcamp** Udemy

01/2025

● **Practical and Complete Guide to Django, Python, and Bootstrap** Udemy

06/2024

● **Linux Embedded & Yocto training** KOAN

12/2023

● **Coding in R for Data Analysis** Udemy

2022 - 2023

● **Learn Linux from zero - LPI Linux essentials, Linux 101 & Linux 102** Udemy

LANGUAGE SKILLS

● **Italian**

Level: Native

● **English**

Level: B2 (Upper Intermediate)

● **Spanish**

Level: B1 (Intermediate)

PROJECTS

30/09/2023

● **Hackathon - PWC**

I participated in a hackathon with the goal of creating an insurance plan to engage Gen Z with the insurance industry.

30/11/2020 - Current

● **Tutoring for students**

Tutoring in physics and chemistry at the university level & high school level in computer science (C++)

30/09/2022

● **Hackathon - Italgas**

In collaboration with Italgas, Microsoft Italia, and Fondazione MondoDigitale, I participated in 'ChangeBot,' a creathon with the goal of creating a gender-bias-free chatbot

HOBBIES AND INTERESTS

● **Archery**

I practice archery competitively, taking part in regional competitions and matches since 2014

