



Sara Cavallini

Date of birth: 2000

Nationality: Italian

CONTACT

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ABOUT ME

I have completed my bachelor's degree in Computer Engineering at University of Bergamo. I have experience in software development and system integration, with a strong motivation to contribute to dynamic and innovative projects.

WORK EXPERIENCE

Alknow srl Bergamo, Italy

Data Scientist

02/2025 – Current

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.

SKILLS

COMPUTER SKILLS

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

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

2019 – 2023

Università degli Studi di Bergamo

Bachelor's degree in Computer Engineering

2014 – 2019

High School

ISIS G. Natta - High School of Applied Science

EDUCATION AND TRAINING

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

10/2023

● **Hackathon - PWC**

In collaboration with PWC, I participated in a hackathon aimed at university students from Gen Z. The event took place at PWC in Milan, with the goal of creating an insurance plan to engage Gen Z with the insurance industry.

2021 – CURRENT

● **Tutoring for students**

Tutoring in Physics 1, Physics 2, and Chemistry at the university level.
Tutoring at the high school level in computer science (C++), physics, and chemistry.
Providing support in learning science subjects and assigning exercises for practice

10/2022

● **Hackathon - Italgas**

In collaboration with Italgas, Microsoft Italia, and Fondazione MondoDigitale, I participated in 'ChangeBot,' a creathon (creative hackathon) aimed at female university students and recent graduates from Italgas, with the goal of creating a gender-bias-free chatbot

2019

● **Stage**

Dott.ssa Giuliana Ubiali Psicologa

I have worked closely with children with learning disabilities (DSA) and other disorders. I assisted the doctor during sessions and selected and provided specific tests for some patients.

HOBBIES AND INTERESTS

● **Archery**

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

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 e del GDPR (Regolamento UE 2016/679).

Bergamo, 10/10/2025