

# Nil Raucci

BIOMEDICAL DATA SCIENTIST · MACHINE LEARNING SPECIALIST · SOFTWARE DEVELOPER

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## Experience

### Machine Learning Specialist

Seriarte

GMM S.P.A.

2022 - Present

- Machine & Deep Learning: Designed, trained and deployed custom models. Implemented state-of-the-art papers. Employed reproducible solutions and MLOps techniques.
- Image Processing: Designed and developed custom image processing pipelines. Implemented cutting-edge research. Specialized in processing and enhancing radiographic images.
- Data Engineering & Full-Stack Development: Designed and built full-stack solutions for data collection, maintenance, and access systems.
- Embedded Systems & Firmware Development: Developed firmware for embedded devices and software to interact with boards.

## Projects

All project details are confidential and protected under NDA.

### Radiographic Positioning Consistency & Patient Motion Detection

DESIGNER & DEVELOPER

2024 - Present

### Pediatric Bone Age Estimation & Bone Development Classification

DESIGNER & DEVELOPER

2023 - Present

### Serial to CAN-bus Multi-Boards Firmware Updater

CO-DESIGNER & CO-DEVELOPER

2023 - 2024

### Radiographic RAW & DICOM Data Management Platform

DESIGNER & DEVELOPER

2023 - Present

### X-Ray Tube Rotor Speed Detector & Controller

DESIGNER & DEVELOPER

2023 - 2023

### Radiographic Single Image Super-Resolution

DESIGNER & DEVELOPER

2023 - Present

### Autonomous Intelligent X-Ray Beam Collimation

DESIGNER & DEVELOPER

2022 - Present

## Skills

<b>Languages</b>	Python, Rust, C++, JavaScript	<b>Scientific</b>	Numpy, Scipy
<b>ComputerVision</b>	OpenCV, Scikit-Image, Pillow, Kornia	<b>DataBase</b>	SQLite, PostgreSQL
<b>DeepLearning</b>	PyTorch, Lightning, ONNX, MLflow	<b>DataMining</b>	Request, Selenium
<b>MachineLearning</b>	Scikit-Learn, Pandas	<b>WebDev</b>	HTML5, CSS3, Bootstrap, Django
<b>AI Solutions</b>	MediaPipe, YOLO	<b>OS</b>	Linux, Windows

## Education

### International Medical School - University of Milan

Milan, Italy

2017-2020

I studied Medicine and Surgery at the International Medical School of the University of Milan. Due to unforeseen economic challenges, I had to pause my studies before completion. Nonetheless, my time there allowed me to gain extensive knowledge and skills in medical science and research, significantly contributing to my professional development.