

Nil Raucci

BIOMEDICAL DATA SCIENTIST · MACHINE LEARNING SPECIALIST · SOFTWARE DEVELOPER

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Experience

Machine Learning Specialist

Seriante

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

Radiography Single Image Super-Resolution

DESIGNER & DEVELOPER

2023 - Present

Autonomous Intelligent X-Ray Beam Collimation

DESIGNER & DEVELOPER

2022 - Present

Skills

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