FRANCESCO MONTANARO

Computer Science Engineer

PROFILE

Passionate computer science engineer with solid experience in Artificial Intelligence and Software Engineering. Excellent analytical, problem-solving and team collaboration skills, aiming to contribute to cutting-edge AI projects.

CONTACTS

Email: francesco.montanaro998@gmail.com
Website: https://francescomontanaro.com
Github: https://github.com/FrancescoMontanaro
Location: Rome, Italy

LANGUAGES

Italian: Native proficiency
English: Full professional proficiency
Spanish: Basic knowledge

EXPERIENCE

AI Engineer

Skienda s.r.l.
04/2024 - present

• Working with **state-of-the-art AI technologies**, including Computer Vision, Large Language Models (LLMs), and model serving architectures.
Designed and deployed **end-to-end Machine Learning pipelines**, integrating model training, versioning, monitoring and automated deployment processes.
• Designed and developed **high-performance APIs** for integration of AI models and other enterprise applications into production environments.

Software Engineer

Bititup s.r.l.
09/2022 - 04/2024

• Integrated **AI & automation** solutions into enterprise applications, optimizing workflows with **MLOps** best practices.
• Developed **full-stack** applications with a strong focus on performance, scalability, and cloud deployment.
• Automated business processes using **Robotic Process Automation (RPA)**.

EDUCATION

Master of Science in Computer Science and Engineering

Politecnico di Milano
09/2019 - 12/2022

• Specialization in **Artificial Intelligence**
• Thesis: "A Deep Learning Framework to Infer Functional and Spatial Properties from CFD"

Bachelor Degree in Computer Science and Telecommunications Engineering

University of Cassino and Southern Lazio
09/2016 - 07/2019

• Thesis: "Handwriting Analysis for the Diagnosis of Cognitive Impairment."

TECHNICAL SKILLS & COMPETENCES

Machine Learning & AI

• **Deep Learning Frameworks**: PyTorch, TensorFlow, Keras,.
• **Model Serving & Inference Optimization**: Nvidia Triton Server, Model Quantization (Post-training, Quantization-Aware Training), TensorRT, ONNX.
• **Computer Vision**: YOLO, object detection and segmentation, image classification, damage assessment.
• **Natural Language Processing (NLP) & LLMs**: Hugging Face, Transformers, Fine-tuning, RAG, optimization, deployment.

MLOps & Cloud Infrastructure

• **Model Deployment & CI/CD**: Docker, Kubernetes, KubeFlow, Git.
• **Data Engineering**: MySQL, PostgreSQL, MongoDB, data pipelines.
• **Scalable API Development**: FastAPI, Flask, Express.js, RESTful APIs, microservices.

Software Engineering & Automation

• **Programming languages**: Python, C++, C#, Javascript, SQL, VB.Net.
• **Software Development Principles**: Object-Oriented Programming (OOP), Functional Programming, SOLID principles, Design Patterns.
• **Automation & RPA**: UiPath, Selenium.