

Antonio Nocerino

Artificial Intelligence Engineer

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Professional Summary

AI Engineer with a Master's in Artificial Intelligence and Robotics, specializing in Deep Learning, Computer Vision, NLP, and Generative AI. Proven expertise in designing advanced AI solutions such as object detection, semantic segmentation, and Retrieval-Augmented Generation (RAG) systems. Passionate about leveraging AI to drive innovation in smart mobility, robotics, and urban infrastructure.

Core Competencies

- **Programming Languages:** Python (Advanced), Java, C/C++, Swift
- **ML Frameworks:** PyTorch, TensorFlow, Keras, LlamaIndex
- **Generative AI & NLP:** RAG systems, Transformer models, Encoder-Decoder architectures, LLMs (locally deployed)
- **Frameworks/Tools:** Flask, ROS, RESTful APIs (client and server)
- **Specializations:** Deep Learning, Computer Vision, NLP, Smart Mobility, Generative AI

Professional Experience

- Oct. 2024 – Present **Artificial Intelligence Engineer**, *Youbiquo srl*, Cava de' Tirreni, Italy, GenAI & RAG
 - Designed and implemented Generative AI and RAG systems for data-driven decision-making.
 - Developed multimodal RAG solutions integrating structured and unstructured data.
- May – Oct. 2024 **Research Fellow**, *University of Salerno*, Salerno, Italy, AI & Computer Vision
 - Developed computer vision solutions for smart city infrastructure in high-traffic environments.
 - Designed autonomous detection systems achieving 95% accuracy in real-time applications.
 - Contributed to innovative urban analytics and infrastructure improvements.

Significant Projects

- Mar. – Aug. 2024 **Off-Road Autonomous Navigation System**, *University of Salerno*, Salerno, Italy, Technical Innovation
 - Developed a sensor fusion deep learning-based terrain segmentation model achieving 96% IoU.
 - Integrated advanced techniques for real-time autonomous navigation in off-road environments.
- Jan. 2024 **Advanced Video Analytics Platform**, *University of Salerno*, Salerno, Italy, Robotics & CV
 - Built a real-time person tracking and attribute recognition system integrated with Robotics and NLP platforms.
 - Enhanced system efficiency with advanced recognition and voice-command interactions.

Education

- Oct. 2022 – Sept. 2024 **Master's in Artificial Intelligence and Robotics**, *University of Salerno*, Salerno, Italy, Grade: 110/110 with honors - GPA: 3.95/4.0
 - Focus areas: Machine Learning, Deep Learning, Computer Vision.
- Oct. 2018 – Jul. 2022 **Bachelor's in Computer Engineering**, *University of Salerno*, Salerno, Italy, Grade: 110/110 with honors - GPA: 3.75/4.0
 - Specialized in software engineering, algorithmic design, and application development.

Certifications

- 2024 **DeepLearning.AI** – Building Agentic RAG with LlamaIndex, Advanced RAG, Retrieval Optimization (Tokenization to Vector Quantization).
- 2023 **Google** – Generative AI Suite (Fundamentals, Attention Mechanisms, Transformers, Responsible AI).
- 2022 **British Institute** – English (C1 Level, Certification).
- 2021 **University of Salerno** – iOS Foundation.

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