



Samuele Centanni

MSC ARTIFICIAL INTELLIGENCE STUDENT

Modena, Italy

+39 333 519 48809 | samuelecentanni@gmail.com | linkedin.com/in/samuele-centanni | SamueleCentanni

Summary

I am a Master's student in Artificial Intelligence with a strong background in Computer Science and Software Engineering, particularly passionate about Deep Learning and Computer Vision. I am eager to apply my skills in real-world settings and contribute to innovative solutions in robotics and vision applications.

Technical Skills

- Programming: Python, Java, C
- Libraries: PyTorch, TensorFlow, Keras, OpenCV, Scikit-learn, Pandas, NumPy, Matplotlib
- Tools: Git, GitHub, Docker

Experience

High School Tutor – Virtual Reality

IIS Corni, Modena, Italy

MARCH 2025 – PRESENT

- Introduced students to VR and AR technologies.
- Taught Blender and Unreal Engine for 3D modeling and rendering.
- Supported app development and deployment for VR headsets.

Workaway Volunteer

California and Hawaii, USA

JULY 2024 – SEPTEMBER 2024

- Lived and worked in international environments, improving communication and adaptability.
- Practiced English with native speakers in real contexts.
- Developed problem-solving and collaboration skills through diverse tasks.

Academic Projects

ML Model Selection and Optimization

University of Bologna, Italy

2024

- Analyzed datasets to select optimal clustering/classification algorithms.
- Evaluated models using metrics such as accuracy, F1-score, and precision-recall.
- Tools: Python, Pandas, Scikit-learn, NumPy.

Autonomous Agent for Tablut Board Game

University of Bologna, Italy

2024

- Developed a Java-based AI agent using Min-Max and Iterative Deepening.
- Implemented custom heuristics and search optimizations.
- Applied concepts from game theory and AI decision-making.

Social Network Web Application

Personal Project

2024

- Built a Django-based platform with user registration and profile features.
- Implemented authentication system and dynamic user interaction.

Hackathon

Educational Tech Hackathon – Google Developer Group (GDG)

Milan, Italy

MAY 2025

- Explored and applied Agentic AI concepts using Google's new Agent Development Kit (ADK).
- Built a prototype AI-powered study assistant capable of autonomous reasoning and personalized mind map generation.
- Collaborated in a multidisciplinary team to design an interactive and adaptive learning experience.

Education

Master of Science in Artificial Intelligence

University of Bologna, Italy

OCTOBER 2024 – PRESENT

Currently focusing on Image Processing, Computer Vision, and Deep Learning. I have developed solid knowledge of key image processing techniques using the OpenCV library, as well as familiarity with the most well-known CNN architectures and methods for object detection and segmentation.

Bachelor of Science in Software Engineering

*University of Modena and Reggio
Emilia, Italy*

SEPTEMBER 2021 – OCTOBER 2024

- Thesis: DevOps Environment and Continuous Integration
- Final grade: 105/110

Languages

Italian	Native
English	Fluent (C1)

Online Projects

- **Hackathon AI Assistant:** <https://github.com/SamueleCentanni/Hackaton2025>
- **Tablut AI Agent:** <https://github.com/SamueleCentanni/progFAI-Tablut>
- **ML Exercises:** <https://github.com/SamueleCentanni/MachineLearning>
- **SMM Project:** https://github.com/SamueleCentanni/SMM_Project