Samuele Centanni

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⊖ **GitHub:** https://github.com/SamueleCentanni

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ABOUT ME

I am **MS student in Artificial Intelligence**, with a strong background in Computer Science and a passion for Machine Learning, Deep Learning and Computer Vision. Proactive and eager to tackle challenging problems, I am seeking an internship in Amazon Science to **apply my knowledge in real-world scenarios** and **invent**, **design** and **implement** state-of-the-art solutions for never-before-solved problems.

EDUCATION AND TRAINING

Master Degree in Artificial Intelligence
Alma Mater Studiorum, UNIBO [01/09/2024 – Current]

City: Bologna | **Country:** Italy

Bachelor Degree in Software Engineering
Università degli Studi di Modena e Reggio Emilia, UNIMORE [01/09/2021 – 17/10/2024]

City: Modena | **Country:** Italy | **Field(s) of study:** Software Engineering | **Final grade:** 105/110 | **Thesis:** DevOps Environment and Continuous Integration

PROJECTS

ML Model Selection & Optimization
I analyzed multiple datasets to identify the most effective clustering and classification techniques, evaluating model performance using key metrics.
- Explored and compared various **clustering and classification techniques**
- Assessed model performance using **accuracy, F1-score, and precision-recall analysis**.
- Gained hands-on experience in **algorithm selection and performance evaluation** based on data characteristics.

AI for Tablut Board Game
- Developed an **autonomous agent** for Tablut using **MinMax with Iterative Deepening**, heuristics, and optimization strategies
- Implemented **game theory concepts** and search algorithms
- Used **Java** for implementation and **Git** for version control

Link: https://github.com/SamueleCentanni/progFAI-Tablut

Simple Social Network Emulation
Developed a website emulating a simple social network, implementing user authentication, posts, and interactions using
- Django,
- Python,
- Javascript,
- Redis

Link: https://github.com/SamueleCentanni/Django_Project

DIGITAL SKILLS

Machine Learning and Computer Vision

Frameworks & Libraries: OpenCV, Sci-kit learn, NumPy, Pandas, SciPy, Matplotlib.

Deep Learning

Deep Learning frameworks: PyTorch,Tensorflow,Keras

Programming Skills

Java / C / Python / Git

WORK EXPERIENCE

High school tutor on VR headsets

[01/03/2025 – Current]

Tutor for a course on the use of VR headset at IIS Corni in Modena.
- virtual reality (VR) and augmented reality (AR) technologies,
- main modeling and rendering software, such as Blender and Unreal Engine,
- Development of applications, publication on stores and the use of specific hardware for sharing and collaboration in virtual environments.

Workaway Volunteer

[24/07/2024 – 10/09/2024]

City: California & Hawaii | **Country:** United States

• Lived and worked in international environments, enhancing adaptability and cross-cultural communication.
• Practiced and improved English proficiency through daily interactions with native speakers.
• Gained hands-on experience in **construction and house building**, assisting in assembling structures and performing manual labor tasks.
• Took care of **animals**, managing feeding routines, general maintenance, and ensuring their well-being.
• Developed problem-solving and teamwork skills by collaborating with hosts and fellow volunteers on various projects.
• Adapted to diverse work environments, from rural homesteads to tropical settings, strengthening resilience and independence.

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

Thank you for considering my application, and I am excited to hear from you soon.