

Tommaso Ferrario

M. Sc. Student



Profile

Computer science student at the University of Milano-Bicocca. Interested in Artificial Intelligence - Machine Learning - Computer Vision



Work experience

Junior Researcher

University of Milano-Bicocca, Milan

Development of a dynamic profiling system based on reinforcement learning for route recommendation in the tourism sector.



Education

Master's degree Computer Science

University of Milano-Bicocca, Milan - Final grade: - / 110

Thesis title:

Bachelor's degree Computer Science

University of Milano-Bicocca, Milan - Final grade: 107/110

Thesis title: "Automatic traffic analysis: machine learning approaches for the analysis of traffic flows on road networks"

High school diploma, Computer Science

I.S.S. Greppi, Monticello Brianza - Final grade 99/100



Projects

FloodNet Image Segmentation

Semantic segmentation of drone images after Hurricane Harvey for flood identification using Fully Convolutional Networks (FCNs), incorporating data augmentation, architectures like U-Net and SegNet, and fine-tuning of DeepLab.

Fine-Grained Food Classification

Design and evaluation of a fine-grained food classification system using image data. The project involved model training, data augmentation, and classification of 251 food classes, including degraded images, with comprehensive performance analysis.

Self-Driving Car Simulation

Development of a Unity system with a car agent trained via reinforcement learning to tackle challenges, evaluated using curriculum learning.

Ants Colony

Analysis of ant interaction networks to understand colony organization. The project used network structural properties to study the composition and behavior of individuals within the system.

Just Home

Just Home is an app that simplifies short-term house rentals for trips and holidays, making the selection and booking process quick and easy.

Tool Recognition

Developed an image-processing dataset and an automatic classification system for mechanical tools, integrating image segmentation, feature extraction, and preprocessing techniques to enhance recognition accuracy.



Contact



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Skills

- Problem-Solving
- Effective Communication
- Adaptability
- Teamwork



Technical Skills

- Machine Learning & Deep Learning
- Reinforcement Learning - Agents
- Image Processing & Computer Vision
- Algorithms & Data Structures
- Data Analysis
- Relational & NoSQL Databases
- Software Development
- Version Control Systems
- Python, Java, C#, C, Julia, Matlab



Languages

Italian

Fluent

English

Intermediate