




MATTEO ROSSI REICH

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I have a strong AI and statistics background and I'm currently diving into image generation. I would love to be an active member of the GenAI community.

EDUCATION

Master Degree in Artificial Intelligence and Machine Learning

Sep 2021 - Mar 2024

Alma Mater Studiorum – Università di Bologna

Bachelor Degree in Statistics

Sep 2018 - Oct 2021

Alma Mater Studiorum – Università di Bologna

ACHIEVEMENTS

Transnational Project Meeting of the MAI4CAREU in Cyprus

May 2023

University of Cyprus, Nicosia

Exchange Semester (Erasmus)

Sep 2020 - Jan 2021

Technische Universität, Wien

Lead Summer Camp Counselor

Aug 2017 - Aug 2019

Associazione "Il Girotondo" Onlus

PROJECT EXPERIENCE

SDXL Model of Myself

- **Tech:** Kohya_ss, RunPod, ComfyUI, **Description:** I have trained a custom model using my own pictures to be able to pose myself in any kind of generation. I have decided rely on a simple captioning approach using "ohwx man" as tag and using a custom regularization dataset.

NFL Player Contact Detection

- **Tech:** torchvision, OpenCv **Description:** the goal is to identify contacts between players in NFL games using a custom CNN, which processes both tracking data and video feeds.

Birdclef 2023

- **Tech:** librosa, torchaudio, nbdev **Description:** the goal was to identify which birds are calling in long recordings made in Kenya. This project idea is taken from Kaggle's Birdclef 2023 Challenge. To develop this project we built a pipeline to classify mel spectrograms.

Master Thesis

- **Tech:** OR-Tools, REINFORCE **Description:** the goal of the thesis is to solve a traveling salesman problem with added uncertainty. It integrates machine learning and combinatorial optimization to learn policies that adapt to the context from simulated data. It contributes to the field of contextual optimization, and offers a practical solution for improving robot routing problems.

TECHNICAL SKILLS

Programming Languages

- **Proficient** : R, Python, MiniZinc

- **Base** : C, C++, SQL, LISP, Prolog, SAS

Frameworks

- Scikit-learn, Tensorflow, Pytorch, Dockers, Git, ComfyUI, Automatic111, LoRA, ControlNet, IPAdapter, OpenCV

LANGUAGE SKILLS

- **Italian:** native speaker

- **English:** full working proficiency

- **German:** proficient