OMAR YOUNIS

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EDUCATION

Visiting Researcher, EPFL · *January 2022 - June 2022*
Work on improvements for PowerSGD (CUDA) with the supervision of professor Martin Jaggi.

Master Degree in Artificial Intelligence (CS) · *September 2020 - July 2022*
Alma Mater Studiorum - University of Bologna, Italy · 29.5/30
Featured courses: Python, Deep Learning, Machine Learning, Computer Vision, Natural Language Processing, Scala, Optimization, Reinforcement Learning, Complex Systems, AI in Industry.
Projects: SegNet for food segmentation (TensorFlow), discrete optimization for VLSI (MiniZinc, Z3Py), planning for NAO robot (Python), Set Covering Machine implementation (Python), POS tagging (PyTorch), fact checking with FEVER dataset (PyTorch).

Bachelor's Degree in Computer Engineering · *September 2017 - September 2020*
University of Brescia, Italy · 107/110
Projects: online othello game with GUI, computer player, and encryption (Java). Domotic system (Java).
Awards: partial fees refund due to honours.
Thesis: GEM-balls (a classifier with error bounds) - implementation, evaluation, and study of variants.

EXTRACURRICULAR ACTIVITIES

Online summer school in AI, Nankai University, China · *June 2021 for 2 weeks*
Main topics: Robotics, Computer Vision, AI for Medical Applications.
Projects: mobile app to search images in the gallery using pretrained MobileNetV3 + SSD (Flutter), product recognition on store shelves using SIFT (Python with OpenCV).

Summer school in Deep Learning, Neuromatch Academy · *August 2021 for 3 weeks*
Main topics: PyTorch, Reinforcement Learning, from Deep Learning foundations to cutting edge research topics like Continual Learning and Meta-Learning.
Project: Spiking Neural Network with Hebbian plasticity to cluster MNIST (Python with BindsNET).

Other courses

Stanford, C. Finn - Multi-Task and Meta-Learning	MIT − Statistical Learning Theory
DeepMind x UCL − Reinforcement Learning 2021	NYU − Deep Learning Spring 2021
Andrew Ng's Machine Learning & DL specialization	NPTEL − Probability Foundations

OTHER PROJECTS

OpenAI's Gym: contributor, manager and reviewer. I am the author of the new render API.
SciPy's cKDTree remove method implementation (C++); make remove operation ∼100x faster.
Orologi24 is a marketplace for watches. I have made a Telegram bot (Java) used by more than 10k users and a cross-platform mobile app (Flutter, Dart).
CarTradePro is a marketplace for cars. I have made a Telegram bot (Java).

COMMUNITIES & LEADERSHIP

Lead and founder of a Google Developer Student Club with more than 100 students.
Selected Mentee at LeadTheFuture, a Forbes awarded organization with an acceptance rate <20%.
Member and announcer for AI Journal Club, a university club to study AI papers.
Italian Association for Machine Learning, active member in study groups.
Selected volunteer for NeurIPS 2021. Organizers honor my work as one of the best.

AWARDS

25th out of about 600 participants at First Ascent Italy (Italy's Finest Computer Science students).