Mehdi Amlal

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Education

Sapienza University of Rome *Sept 2024 – Present*
MS in Computer Science - Artificial Intelligence

- GPA: 4.0/4.0
- Admitted as one of 80 students from across Italy for the merit-based Collegio RUI in Rome.

University of Turin *Sept 2020 – Apr 2024*
BS in Computer Science

- GPA: 3.9/4.0
- Received merit-based scholarship for three years in a row.

Experience

Research Intern *Rome - Stockholm*
The Good AI Lab *Sept 2025 – Present*

- Conducting reseach on model merging and domain adaptation for computer vision tasks.
- Working on a project in collaboration of the *GLADIA Lab* at *Sapienza University.*

Software Engineer *Turin - Milan, Italy*
Reply *Mar 2024 – Aug 2024*

- Worked on cloud data migration for one of Italy's largest commercial banks.
- Refactored existing microservices for internal tools, resulting in a 60% performance improvement.
- Automated batch data flows between on-prem systems and Azure, reducing processing time by 30%.
- **Tools**: Java, Microsoft Azure, Spring Boot, Spring Batch, Spring Data, MongoDB, Splunk

Research Assistant *Turin, Italy*
University of Turin - CS Department *Sept 2023 – Apr 2024*

- Designed and implemented a group formation platform aimed at individuals with autistic spectrum disorder.

Projects

M^{3}SB: Multi-Model Merging via Spherical Barycenters *GitHub Repository* ⬈

- Developed and tested a path-independent spherical-barycenter generalization of SLERP for merging multiple neural networks like ViT-B/16 fine-tuned on different image classification tasks in both full-parameter and task-vector spaces.
- **Tools**: PyTorch, Python, Git, Hugging Face, Kaggle

Comparative Analysis of LLMs for Code Generation

- Benchmarked code-generation LLMs (StarCoder2 vs. CodeLlama) on industry-standard datasets, proving the superiority of code-centric pre-training over fine-tuning.
- **Tools**: Python, Hugging Face, Kaggle

Real-Time Italian Sign Language Detecting System *GitHub Repository* ⬈

- Developed a real-time detection system for Italian Sign Language using landmark detection and machine learning.
- **Tools**: Python, scikit-learn, MediaPipe, OpenCV

Extracurricular Activities

Boston Consulting Group (BCG) Hackathon   *Milan, Italy*
                                                               Oct 2024

- Among 14 selected from 200+ applicants for BCG Platinion's Hackathon.
- Developed and pitched a product to reduce the environmental impact of food packaging.

Skills

Programming Languages: C, Java, Python, SQL, JavaScript

Experience With: Git, GitHub, OOP, System Programming, Machine Learning, Data Science, Parallel Programming, scikit-learn, MediaPipe, OpenCV, Pandas, NumPy, Matplotlib, PyTorch, Tensorflow, Keras

Spoken Languages: Italian, Arabic, English, French