Mostafa Eid

(+39) 3516378597 | mostafa2222.me@gmail.com | LinkedIn | GitHub | Kaggle

EDUCATION

University of Pisa　　　　　　　　　　　　　　　　　　　　　　　　　　Pisa, Italy
Master of Science in Computer Science　　　　　　　　　　　　　　*Nov 2024 – Present*

- University of Pisa Merit Scholarship (2024–Present).
- **CGPA:** 27.6/30.0

Moscow Institute of Physics and Technology (MIPT)　　　　　Dolgoprudny, Russia
Bachelor of Science in Computer Science　　　　　　　　　　　　*Oct 2020 – July 2024*

- **Final Grade:** 4.8 / 5.0
- **Thesis:** Classification of EEG Data With Federated Learning.
- Research focused on applying privacy-preserving machine learning techniques to biomedical signal processing.

TECHNICAL SKILLS

Languages: Python, C++, SQL, Rust (Basic), Bash
Machine Learning: PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn
Development Tools: Docker, Flask, SQLAlchemy, Git, GitHub, Jupyter
Concepts: Neural Networks, Federated Learning, API Development, Data Visualization

PROJECTS & RESEARCH

Neural Network From Scratch | *Python, NumPy, Matplotlib*　　　　　Nov 2024 – May 2025

- Developed a Feed-Forward Neural Network implementation using only NumPy to understand core architectural mechanics.
- Implemented backpropagation, activation functions, and optimization algorithms without high-level ML frameworks.
- Conducted feature engineering and visualization to optimize model performance.
- **Result:** Achieved 99% test accuracy on MONK1, and 95% on MONK2 and MONK3 datasets.

Seismic.py Library | *Python, API Design*　　　　　　　　　　　　　Nov 2024 – Jan 2025

- Re-implemented core functionalities of the Rust-based "Seismic" library into a pure Pythonic API.
- Engineered a clean, modular interface to facilitate easier integration into Machine Learning and data analysis workflows.
- Authored comprehensive documentation and usage examples to accelerate adoption by Python developers.

New York City Jobs Analyzer | *Flask, Docker, SQLAlchemy*　　　　Sept 2022 – Nov 2022

- Built a RESTful API using Flask to ingest data from the NYC Open Data API.
- Developed analytics endpoints to provide insights on job vacancies and salary distributions.
- Containerized the application using Docker for consistent deployment.

LANGUAGES

Arabic: Native
English: C1/C2 (Proficient)
Russian: B2 (Independent)
Italian: A2 (Elementary) **Spanish**: A2 (Elementary)

VOLUNTEERING

Paper-Airplanes.org　　　　　　　　　　　　　　　　　　　　　　　　Remote
Private Tutor　　　　　　　　　　　　　　　　　　　　　　　　*Sept 2022 – Jan 2024*

- Provided 1-on-1 English tutoring to individuals from conflict zones (Syria, Ukraine, Afghanistan).

I Believe in Science　　　　　　　　　　　　　　　　　　　　　　　　Remote
Scientific Translator　　　　　　　　　　　　　　　　　　　　*Dec 2018 – May 2019*

- Translated and edited complex scientific articles into Arabic to increase accessibility of scientific knowledge.

CERTIFICATIONS

Machine Learning Specialization: Coursera [Certified]