Giuseppe Galilei

giuseppegalilei

in giuseppe-galilei

giuseppegalilei.com

Innovation driven and curiosity fueled, Data Science MSc student. Developed AI related products for companies, student competitions and personal projects. Worked in international and multi-disciplinary teams, with a sense of ownership and often covering leadership positions. I always keep an eye on the end-user experience and enjoy experimenting outside my main field of expertise, recently built a personal website and contributed to open-source projects related to maps and computer networks. In my free time, you can find me mountain biking while listening to podcasts.

WORK EXPERIENCE

Machine Learning Operations MLOps Engineer - internship

Blue Reply, Turin

MLFlow Python Kubernetes

March 2020 - May 2020

Designed and prototyped a production ready MLOps system that could be put into action without disrupting the existing workflow.
 Tested several tools for code/data/model versioning and discussed best practices and feasibility with Data Scientists and DevOps engineers.

EDUCATION

Master's degree in Data Science and Engineering

28.4/30 average grade

October 2021-current

Bachelor's degree in Computer Engineering

Politecnico di Torino

Politecnico di Torino

104/110

i July 2021

PROJECTS

Folium [link], CasaOS-AppStore [link] ,Unifi Network Application [link]

Addressing the Challenges of Federated Learning

Open Source contributions
Research and Paper writing

//> PyTorch Python

🞧 Code 🖭 Report

- · Worked in a team that identified and documented key challenges and potential solutions in Federated Learning.
- Tested FedAVG, FedGKT, and FedDyn in the case of i.i.d. balanced, non i.i.d. balanced, and non-i.i.d. unbalanced data distribution.
- Reproduced the gradient attack to address potential privacy issues.

WAP - With A Purpose (for European Innovation Academy 2019)

Startup Concept and Digital Prototype

/> Flask | Word2Vec | Natural Language Processing and Understanding | JavaScript | Cloud Computing

Report .

- Developed and executed a **whole startup idea**, from ground technology to marketing and IP protection efforts, in a multicultural and multidisciplinary team of five.
- Developed an **Al powered process** allowing users to jump, with a single click, from reading a news article about an issue to donating to NGOs working on it. The system was based on a **browser extension**, a **private cloud server**, **NLP libraries** and **third party APIs**.

Pyna - The mood reader (showcased at Maker Faire Rome 2018)

Prototype Development and Showcase

Rapid Prototyping Python OpenCV Cloud Computing

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- Developed a device that can autonomously track the user's mood and accordingly adapt the environment, using light and music, to improve it.
- The computing is split between a **local device**, which has a raspberry Pi inside a custom 3d printed enclosure, and a **private cloud** server.

HONORS AND AWARDS

Scholarship to attend the European Innovation Academy 2019

Selected to attend a three weeks international summer school on **startup**'s development, mentored by experts from renowned companies and universities. There, the prototype I developed was awarded one of the **best 10 among the 50** in competition

Project Showcase and Press Interview at Maker Faire Rome 2018

Hackathon winners awarded to attend the 3-day Faire to showcase the **Pyna** project to more than **100k visitors**. Selected by "Il Messaggero", a nationally renowned italian newspaper, to conduct a **video interview** [link]

Young Talents Program

During the bachelor degree, selected for a program reserved to top 4% students from all faculties to attend extra courses.

Merit selected guest of Collegio Einaudi and scholarship winner

Each year, students living in my university residence are required to meet a **merit criteria** and follow **extra courses**. In 2023 I also received an extra 1000 euros **scholarship** for my **academic results**, selected among the best students living in my residence in the academic year 2021/22.