

Lorenzo Germini



Strengths

- Strong background in Engineering with a focus on Neuroscience & Digital Health
- Data Science & Machine Learning mastery: Python & PyTorch
- Sharp analytical skills demonstrated tackling challenges in Pharma & fast-paced start-up

Education

Swiss Federal Institute of Technology Lausanne (EPFL)
MSc in Life Sciences Engineering

2020 - 2022
Lausanne, Switzerland

Bachelor in Electrical Engineering
Polytechnic of Turin

2020
Turin, Italy

Liceo Scientifico G. Peano
Maturità Scientifica EsaBac (Franco-Italian Secondary Diploma)

2017
Cuneo, Italy

Core Experience

Burgeon Labs, Engineering Intern (EPFL Master Thesis Project)

Febr. 2022 – Aug. 2022

My master thesis investigates how a Natural Language Processing powered tool could be implemented to research the vast scientific literature on topics of longevity and human health and automatically extract evidence-based takeaways from relevant papers according to a selected level of conciseness. Beyond working on my thesis, I supported the early development of the company's first digital health product alongside the CEO with a focus on product management and quantitative research.

Roche, Internship Programme "Think Tank in Innovation & Sustainability"

July 2021 – Sept. 2021

Oversaw the development of a customized filling machine prototype to supply drugs to patients based on individual demand. Performed hardware-software integration testing with a data-acquisition platform and facilitated fruitful incorporation of outside partners (start-ups, companies) into workflows. Within the same framework, I designed a Machine Learning model for accurate fill parameter determination in the context of Personalized Medicine solutions for drugs in the pipeline. Validating my results with various departments as well as delivering pitches to senior executives have enabled me to foster a culture of curiosity and collaboration while solving for real-world challenges in the Pharma Industry.

Technical Skills

Knowledge: Digital Health, Neuroscience, Personalized Medicine, Product Development, Economic Growth & Sustainability

Data Science: advanced Python (Numpy, Scikit-Learn, Pandas, Matplotlib), intermediate PyTorch, intermediate Matlab, Git & GitHub, Applied Data Analysis, advanced Machine Learning methods, Deep Learning, NLP (Transformers) & Large Language Models

Project management: Innovation management, business plan, IP, market and competitive analysis, excellent management of emergent issues

Interpersonal Skills: Intercultural and science communication, collaboration and team communication, practical problem solving, public speaking, out-of-the-box thinking, influencing without authority, critical thinking

Languages

English (C2), French (C1), Italian (Native)

Extra-curricular activities

Played professional volleyball in third major Italian league, sailing and chess