Luca Ferrari

ferrari.luca.cs@gmail.com | https://ferrariluca.net | https://www.linkedin.com/in/luca-ferrari-75333b1b3/ | https://github.com/frittatelle

Data Science and Computer Engineering student with proven ability to combine vision, technical knowledge and data-savviness through multiple projects and academic education.

Skills and areas of expertise

Programming languages	Big Data	Cloud Computing	System Administration	Web Development	Data Science / ML	Other
PythonJavaCSQLMATLAB	HadoopHiveSparkPySpark	GCPOpenStack	LinuxUbuntuCentOSNginxApache	HTMLCSSJavaScriptPHPJSPMySQL	 NumPy Pandas SciKit Learn MongoDB TensorFlow Matplotlib SeaBorn 	 Project Management Git Wireshark Jupyter Adobe Suite Office package

Projects

For extra projects and further information: https://ferrariluca.net/projects

backCor (Raman spectra pre-processing tool)

Code: https://github.com/frittatelle/backCor

Download: https://ferrariluca.net/docs/backCor Installer.exe

Python, Python OOP, Tkinter, NumPy, Matplotlib, PyInstaller, Project Management

backCor is a Raman spectra pre-processing software I developed in collaboration with the Nanomedicine and Molecular Imaging lab of IRCCS ICS Maugeri and the CCPS lab of the University of Pavia.

After being processed Raman spectra data is used to classify mammal microcalcification and therefore to detect breast tumor.

- o Software design
- Software development

COVID-19 Hackathon

Analysis: https://ferrariluca.net/docs/hackathon

Hackathon rules: http://antoninonocera.unipv.it/2020/04/01/dsbda-2020-hackathon-covid19/ Python, Numpy, Pandas, SciKit-Learn, Matplotlib, Seaborn

The objective of the project/hackathon was to investigate COVID-19 data providing meaningful insights and trends. In my analysis I tried to assess the effectiveness of the Italian Government containement measures. The analysis was positively evaluated by the jury and got me the 2nd place in the COVID-19 Hackathon by University of Pavia.

- o Data sources research
- Data exploration

- Data pre-processing
- Hypothesis formulation
- o Hypothesis testing and verification
- Results presentation

Complex Networks analysis

Analysis: https://ferrariluca.net/docs/edi.pdf

Nginx, AWS, HTTP/2, Ubuntu Server, Proxy Servers, Apache, CentOS, DDoS

Server architectures / technologies performance and robustness testing.

- Servers setup on AWS
- Ubuntu / CentOS setup
- o HTTP/2 setup
- Reverse proxy setup
- Performance testing
- o Robustness testing (DDoS attack simulation)

ferrariluca.net

AWS, Ubuntu Server, Nginx, HTML, CSS, JavaScript, PHP, MySQL, Project Management, Adobe Suite

Personal website development and setup.

- Website design
- Website development
- Server setup on AWS
- Website deployment

Education

• Master's degree, Computer Engineering, Data Science

Università degli Studi di Pavia, Italy 2019 - 2021

• Bachelor's degree, Bioingegneria e ingegneria biomedica

Università degli Studi di Pavia, Italy

2016 - 2019

Maturità scientifica

Liceo Scientifico T.Taramelli, Pavia, Italy

2011 - 2016

Languages

- Italian, Mother tongue
- English, Fluent
- French, Basic
- Swedish, Beginner