Flavia **Salutari**

PhD in Computer Science, Data and AI · 29 y.o. · French, English, Italian · international environment

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Professional **Exp**erience

BNP Paribas Personal Finance	*Paris, France*
Data Scientist	*currently*

- Carrying out data projects to improve performance, solve problems and/or support the challenges of business teams in different countries, according to the priorities identified: receiving requirements, analysing data, creating models and tools.
- Educational feedback on results and methods implemented and support for business teams.
- CLI/LIB/API development and use of MLOps-standard pipelines for CI/CD (GitOps/ArgoCD), model monitoring (MLflow), implementation of code quality standards (black/flake8/mypy/pylint/isort), tests configuration.
- Production launch of the tools developed jointly with the ML engineers, exposition of the models created.
- Scientific watch for state-of-the-art proposals, as well as for the maintenance and update of models in production.

Institut Polytechnique de Paris (Telecom Paris)	*Paris, France*
Ph.D. Candidate in Computer Science, Data and AI	*Jun. 2018 - Jun. 2021*

- Defined methodologies and tools for a large scale, longitudinal and unbiased view of Internet (protocols and user experience).
- Led experiments to capture the Quality of Experience (QoE) of users browsing the Web, with both online and offline experiments.
- Built models to predict users' satisfaction based on objective metrics in the context of a 2 years long collaboration with the Wikimedia Foundation to explore and forecast Wikipedia users' QoE.

University College London	*London, UK*
Visiting Researcher	*Sep. 2020 - Feb. 2021*

- Investigated and revealed societal biases embedded in Natural Language Processing (transformers language models via MLM tasks)

Telecom ParisTech	*Paris, France*
R&D Engineer (Research Fundings: NewNet@Paris Cisco's Chair)	*Mar. 2017 - May 2018*

- Exposed the first Internet-wide adoption ($6M+$ representative targets) of both known and undiscovered IP-ID implementations.

Telecom Italia	*Torino, Italy*
Intern	*Apr. 2015 - Jun. 2015*

- Designed and developed an algorithm (in Matlab) for the geometric verification of pictures, in the context of image recognition.

Education

Institut Polytechnique de Paris (Telecom Paris)	*Paris, France*
Ph.D. in Computer Science, Data and AI	*Sep. 2015 - Oct. 2017*

- Thesis title: *Longitudinal, large-scale and unbiased Internet measurements: the users, the Web, the models*
- Publication of scientific papers (WWW, PAM, etc.), journal articles and participation in international conferences.
- Participated to TMA 2018 (development of an algorithm for fingerprinting the usage of Internet services) and RESCOM 2018 (temporal and spatial analysis of tweets) hackathons in team with two other PhD candidates and won both.

Politecnico di Torino	*Torino, Italy*
Master of Science in ICT for Smart Societies (Final Grade: 110/110 summa cum laude)	*Sep. 2015 - Oct. 2017*

- Thesis Title: *Design and experimentation of host classification algorithms using active measurements in the Internet.*
- Coursework: Operational Research, Statistical Signal Processing, Automotive Infosystems, Smart Grids, ICT in transport systems, ICT in building design, ICT for Geomatics, ICT for Health, Programming for IoT applications, Mobile and Sensor Networks.
- Worked in a team to build a framework (Python, Pandas, GeoPandas, MongoDB) for the collection and analysis of car sharing data: *UMAP: Urban Mobility Analysis Platform to Harvest Car Sharing Data* for IEEE Smart City Innovations (2017).

同济大学 (Tongji University)	*Shanghai, China*
Politong Project (Exchange Project)	*Sep. 2013 - Jul. 2014*

- Coursework: Complex Analysis, Advanced Programming, Software Engineering, Chinese Language, Chinese History and Culture.

Politecnico di Torino	*Torino, Italy*
Bachelor Degree in Telecommunications Engineering	*Sep. 2012 - Jul. 2015*

- Coursework: Calculus, Signal Theory, Computer Networks, Image and Video Processing, Networking Laboratory.

Skills and **Int**erests

Tools	Git, GitlabCI, SVN, Microsoft Office (Excel, Powerpoint)
Programming	Python (numpy, pandas, sklearn, transformers, sentence-transformers, etc.), SQL, Bash, LaTeX
Languages	Italian (native), English (advanced), French (advanced), Chinese (beginner)
Soft Skills	Communication, Synthesis, Teamwork, Empathy, Adaptability
Other Interests	Acting, Cinema, Literature, Photography