









Erasmo Purificato









Researcher

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
About Me

I'm a technology enthusiast and a great football passionate. My life is marked by Muhammad Ali's quote "*Impossible is nothing*".

Hard Skills

-  User Profiling - HCI ● ● ● ● ●
-  Machine Learning ● ● ● ● ●
-  AI Ethics - Fairness ● ● ● ● ●
-  Explainable AI ● ● ● ● ●
-  Recommender Systems ● ● ● ● ●
-  Deep Learning ● ● ● ● ●
-  Information Retrieval ● ● ● ● ●
-  Computer Vision ● ● ● ● ●

Soft Skills

-  Teamwork ● ● ● ● ●
-  Learning attitude ● ● ● ● ●
-  Critical thinking ● ● ● ● ●
-  Problem-solving ● ● ● ● ●
-  Leadership ● ● ● ● ●
-  Communication ● ● ● ● ●
-  Time management ● ● ● ● ●

Work Experience

- Jul 2021 – currently **Adjunct Professor** University of Rome Guglielmo Marconi
Principal Lecturer of the course "Software Engineering and Quality" for the Master of Science in Computer Engineering (LM-32).
- Feb 2020 – currently **Research Assistant** Otto von Guericke University Magdeburg
Research and teaching in the "Digital Transformation and Digital Humanities" group in the fields of: HCI, Recommender Systems, Artificial Intelligence, Machine Learning, NLP and Usability.
- Feb 2020 – currently **Research Fellow** Georg Eckert Institute Brunswick
Member of the department "Digital Information and Research Infrastructures", involved in the development of a systematic User Monitoring service and in the building of a mobile Usability Lab.
- Sep 2018 – Jun 2019 **Serie A Football Match Analyst** KlipDraw
Analysis of the best tactical plays and goals of the Italian Serie A matches, using KlipDraw Animate professional software.
- Sep 2017 – Dec 2019 **IT Consultant** Blue Reply
Positions held:
 - **AI Expert**
Project management, design and implementation of machine learning and deep learning systems with open source frameworks and libraries (e.g. PyTorch, Keras, Tensorflow, scikit-learn, pySpark, LIME, SHAP, Flask).
 - **Technical Leader of the Machine Learning Innovation Team**
Solution design and implementation of machine learning and deep learning use cases (churn analysis, predictive maintenance, fraud detection), both with IBM (Watson Studio, Watson Machine Learning) and open source tools (e.g. Python scripts, KNIME, Apache Spark) mainly in banking and financial areas.
 - **Product Specialist**
Project management and implementation of cognitive information retrieval systems with IBM tools (Watson Content Analytics, Watson Enterprise Search).

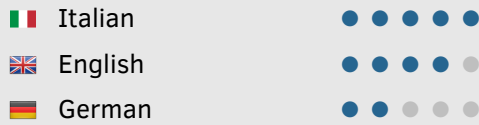
Education

- May 2020 – currently **PhD in Computer Science** Otto von Guericke University Magdeburg
Title of the doctoral project: "*Beyond-Accuracy Perspectives on Graph Neural Network-Based Models for Behavioural User Profiling*".
- Feb 2018 – Dec 2019 **2nd level Master's degree in Artificial Intelligence** University of Turin
In-depth studies on different sectors of Artificial Intelligence: Machine Learning, Deep Learning, Image Processing, Natural Language Processing, Business Intelligence, Big Data Analytics, AI Ethics.
Master Thesis (110/110)
Development of a Visual Search system for an e-commerce portal.
- Nov 2014 – May 2017 **Master's degree Computer Engineering** University of Naples "Federico II"
Specialization Area: Information Technology management.
Master Thesis (110/110 cum Laude)
Multimedia and geographic data integration for cultural heritage information retrieval.
- Sep 2011 – Nov 2014 **Bachelor's Degree Computer Engineering** University of Naples "Federico II"
Focus: Artificial Intelligence theory and Software engineering.
Bachelor Thesis (109/110)
Design of a programmable delay line in CMOS technology.

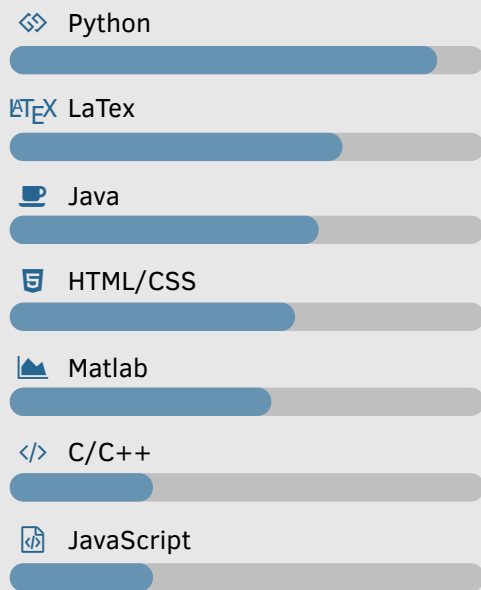
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Languages



Programming



Certifications

Nov 2022	Football Data Intelligence <i>SICS & Soccerment</i>
Dec 2020	Recommender Systems Specialization <i>Coursera</i>
Dec 2018	Football Performance & Data Analysis <i>Elite Football Center</i>
Apr 2018	Master in Data Analysis in Team Sports <i>360MSS</i>
Mar 2017	Football Match Analyst <i>Elite Football Center</i>

Teaching and Invited Talks

Apr 2020 – currently

Teaching staff member

Otto von Guericke University Magdeburg

Responsible for the exercise course, consisting in carrying out usability studies by employing eye tracking devices to learn how to evaluate the usability and UX of websites and interactive systems. Teaching assistant holding theory lectures on "*User Experience and Usability*" and "*Responsible AI*" for the following courses:

- **Human-Centred Artificial Intelligence** (*Master*)
- **Knowledge Engineering and Digital Humanities** (*Master*)
- **Introduction to Digital Humanities** (*Bachelor*)

Mar 2019

Invited seminar speaker

University of Brescia

Seminar "*Churn Prediction with Machine Learning*" about the importance of customer churn prediction in companies and how to tackle it with machine learning methods, performed for the Master students in Computer Engineering.

Feb 2019 – Oct 2019

Knowledge Sharing program

Reply

Participation in events for knowledge sharing with other colleagues from all Reply companies.

- **Decrypting Machine Learning models with LIME Labcamp** (Turin, 17th October 2019)
Speaker for a seminar about explainability techniques and the importance of trusting a Machine Learning model.
- **Churn Prediction with Machine Learning Labcamp** (Turin, 13th February 2019)
Speaker for a seminar about the importance of customer churn prediction in a Telco company.

Jun 2017

Invited seminar speaker

University of Naples "Federico II"

Seminar about "*Multimodal Information Retrieval with Apache Solr*" performed during the course of Information Retrieval Systems, held by professor Antonio Maria Rinaldi, for the Master's degree in Computer Engineering.

Selected Publications

Jul 2023

FairUP: A Framework for Fairness Analysis of Graph Neural Network-Based User Profiling Models

M. Abdelrazek, E. Purificato, L. Boratto, E.W. De Luca

Proceedings of the 46th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'23)

Jun 2023

Tutorial on User Profiling with Graph Neural Networks and Related Beyond-Accuracy Perspectives

E. Purificato, L. Boratto, E.W. De Luca

Proceedings of the 31st ACM Conference on User Modeling, Adaptation and Personalization (UMAP'23)

Oct 2023

Do Graph Neural Networks Build Fair User Models? Assessing Disparate Impact and Mistreatment in Behavioural User Profiling

E. Purificato, L. Boratto, E.W. De Luca

Proceedings of the 31st ACM International Conference on Information & Knowledge Management (CIKM'22)

Jun 2022

The Use of Responsible Artificial Intelligence Techniques in the Context of Loan Approval Processes

E. Purificato, F. Lorenzo, F. Fallucchi, E.W. De Luca

International Journal of Human-Computer Interaction (IJHCI)