

Vittorio Faraco

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SUMMARY

MSc student in Computer Engineering and AI, Data, and Web freelance consultant.

EDUCATION

MSc in Computer Engineering, *Polytechnic University of Bari*

2021 - 2023

- Studying AI, machine learning, big data, image processing and artificial vision, IoT, information systems security, distributed systems, human-machine interaction, operations research, and web technologies.

BSc in Computer Engineering, *Polytechnic University of Bari*

2018 - 2021

- Studied software development, databases, algorithms and data structures, operating systems, telecommunications networks and systems, automatic control systems and electronics.

EXPERIENCE

Research Intern

2022 - present

Polytechnic University of Bari

Bari, Italy

- Currently managing research activities across the fields of Machine Learning and Recommender Systems. My main focus is Fairness, but I am also working on Causality and Reinforcement Learning for Knowledge Representation, Conversational AI, and Synthetic Data Generation.

Data and Web Consultant

2020 - present

Freelance

- Worked on several full digital projects from healthcare platforms, conversational agents, to e-commerce and showcase websites. I managed multiple segments: development, digital strategy, analysis, reporting, optimization. My work led to sales increases and streamlined working processes across multiple sectors.

RESEARCH INTERESTS

- Artificial intelligence, machine learning, deep learning, recommender systems, fairness, reinforcement learning, causality, graph representation learning, conversational AI, healthcare technologies.

PROJECTS

Joint Fairness-Novelty Optimizer for RecSys. Developed an optimization-based reranking system for post-processing fairness—producer-calibrated and equality-based—and novelty enhancement in recommender systems.

Twitter Sentiment Analysis System. Built a lexicon-based engine that performs emotion recognition on Twitter data for my BSc thesis. Used Python, Tweepy, NLTK, TextBlob, Plotly, WordCloud. ([Github](#))

Spark E-commerce Segmentation and Prediction Tool. Co-created a Spark-powered big data platform to analyze e-commerce information, segment users based on the RFM matrix and predict customers' next purchases.

SKILLS

- Python, Java, PyTorch, Spark, MATLAB, Colab
- Node.js, PHP, SQL, WordPress, Bash, Git, Latex

CERTIFICATIONS

Certificate in Advanced English passed with grade A (C2 level)

January 2023

Cambridge University Press \mathcal{E} Assessment