

Vittorio Maria Faraco

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Web development and data consultant. Master's student in computer engineering.

Experience

Research Intern

2022-2023 | *Politecnico di Bari*

- Managed research activities across the fields of machine learning and recommender systems. My main focus has algorithmic fairness, but I also worked on causality and reinforcement learning for knowledge representation, conversational AI, and synthetic data generation.

Web Development and Data Consultant

2021-present | *Freelance*

- Worked on several full digital projects from monitoring platforms, conversational agents, to e-commerce and showcase websites. I managed multiple segments: strategy, development, analysis, reporting, maintenance. These works streamlined working processes and implemented smart solutions across multiple sectors.

Education

MSc in Computer Science Engineering

2021-present | *Politecnico di Bari* | GPA 28.2/30

- 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 Science & Automation Engineering

2018-2021 | *Politecnico di Bari* | 102/110

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

Skills

- Python, PHP, JavaScript, Java, HTML, CSS, MATLAB, Bash, LaTeX
- Django, Laravel, Node.js, Express, Next.js, MySQL, PostgreSQL, Firebase, WordPress, Hugo, Git, Docker, PyTorch

Interests and Projects

- Back-end technologies, software architecture, cloud computing, devops and MLops, artificial intelligence and machine learning, NLP, recommender systems, open source, healthcare technologies.

Joint Fairness-Novelty Optimizer for RecSys. Optimization-based reranking system for post-processing fairness (producer-calibrated and equality-based) and novelty enhancement in recommender systems.

Twitter Sentiment Analysis System. Lexicon-based engine that performs emotion recognition on Twitter data for my BSc thesis. Used Python, Tweepy, NLTK, TextBlob, Plotly, WordCloud.

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

Certifications

C1 Advanced English Certificate passed with grade A (C2 level)

Issued in January 2023 | *Cambridge University Press & Assessment*