Youness Hourri

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Research Interests

- Software Engineering & Open-Source Software (OSS) Research
- Data Science & Machine Learning

Education

University of Mons, Belgium   2023 - Present
PhD in Software Engineering
- Research on automation and software evolution in open-source communities.

Université Sorbonne Paris Nord, France   2022 - 2023
Master's in Machine Learning and Data Science
- Focus on data mining, machine learning, and business intelligence.

Université Sidi Mohammed Ben Abdellah-Fès, Morocco   2021 - 2023
Master's in Web Intelligence and Data Science
- Studied artificial intelligence, web mining, and natural language processing.

Research and Work Experience

University of Mons   2023 - Present
Researcher, Software Engineering Lab
- Investigating best practices in open-source software engineering.
- Studying contributor activities and software evolution trends in OSS projects.
- Assisting in mentoring students and supervising research projects.

Institut Lyfe Research and Innovation Center, France   2023
Data Scientist (Internship)
- Conducted statistical analysis on olfactory perception in perfumery students.
- Applied machine learning and NLP to evaluate aroma descriptions.

Artificial & Business Intelligence Soft, Morocco   2022
Java Developer (Internship)
- Designed and developed a web-based application for medical tourism.

Publications

Journal Articles

- Smell and Tell: The Emergence of Olfactory Expertise in Perfumery Students *Chemical Senses (to appear, February 2025)*

Conference Papers

- A Dataset of Contributor Activities in the NumFocus Open-Source Community *MSR 2025, Ottawa, Canada, April 28-29, 2025*

- Towards Understanding Open-Source Software Communities *BENEVOL 2024, Namur, Belgium*

Conferences & Talks

- Presentation at BENEVOL 2024 (Namur, Belgium) – OSS Communities Research

- Presentation at InforTech Day (University of Mons) – OSS Development Bots

- Attended DevFest Mons – AI, Cloud, and Web Technologies

Teaching & Supervision

University of Mons

- Software Evolution (2025, 2024) – Supervised GitHub-based student projects.

- Compilation (2025, 2024) – Assisted in Python-based regular expression exercises.

- Supervised Research Internship (2024) – Graph Visualization in OSS Networks.

- Master's Thesis Jury Member (June 2024) – Evaluated and provided feedback for master's research defenses.

Summer Schools

SIESTA 2024 Summer School (Bari, Italy)   September 4-6, 2024
- Participated in tutorials, student talks, and networking sessions on software engineering trends.

Certifications

Machine Learning Specialization
DeepLearning.AI – Verified on Coursera

- Supervised Machine Learning (Regression & Classification)

- Advanced Learning Algorithms

- Unsupervised Learning & Recommender Systems

Selected Projects

- **GHMap** – Mapping GitHub events to structured contributor activities. [GitHub]

- **Accident Management System** – Web app for magistrates managing legal accident files.

- **Twitter Sentiment Analysis** – NLP model for Arabic tweet classification.

- **Soccer Players Face Recognition** – Real-time facial recognition for sports analytics.

- **Cancer Mortality Prediction** – Predicting mortality rates using machine learning.

Technical Skills

Programming: Python, Java, C/C++, PHP
Data Science: Machine Learning, NLP, Data Mining, Optimization, BI
Software Development: Web Development, API Design, Version Control (Git), React Native, Android
Databases: MySQL, Oracle, SQLite, PL/SQL, NoSQL
Software Modeling: UML, Merise, Design Patterns

Volunteering & Community Engagement

• Linkee (France, 2023) – Assisted in food distribution for students in need.

• Équipage Solidaire (France, 2023) – Delivered hygiene kits and essential supplies to students.

Languages

Amazigh, Arabic (Native) — **French** (Fluent) — **English** (Professional)

Soft Skills

- Adaptability & Problem-Solving
- Teamwork & Collaboration