



# Hajar MOUSANNIF

University Professor - AI Expert

## Profile

Innovative University Professor - AI Expert and Technology Consultant with over 17 years of extensive experience in Computer Science, Artificial Intelligence, Machine Learning, Deep Learning and Data Science-related subjects; has pioneered and launched independent research projects; federator and influencer within the worldwide AI community; and has established a solid linkage with both public and industry sectors.

- 70+ research publications on Machine Learning&Data Science
- 10+ funded projects: AI & Data Science related
- 2 patents in AI
- Closely working with industry to master complexity and to achieve the best value out of AI
- Expert in digitalization and virtualization of complex industrial processes and definition of AI strategy roadmap
- Keynote speaker, [TEDx](#) speaker

## Details

Les Portes de Marrakech,  
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## Links

[LinkedIn](#)  
[Website](#)  
[Google Scholar](#)

## Skills

AI, ML and Data Science

Creative Thinking and  
Innovation

Quick Technology Trend  
Adoption

Leadership and Management

Problem-Solving skills

Emotional Intelligence

Community Builder

Interpersonal and  
communication skills

## Hobbies

Poetry, piano and running

## Languages

English

Arabic

French

German

## Employment History

### Computer Science Professor at Cadi Ayyad University

March 2013 — Present

- Founded and coordinated the first Master program in AI and Data Science in the university. Taught Artificial Intelligence, Machine Learning, Deep Learning and Data Science-related courses to university students.
- Developed new subjects and programs in conjunction to the master program, in collaboration with the silicon industry.
- Lead research projects and supervised PhD students around AI, Data science and IoT subjects, including tinyML and their applications in healthcare, epidemics, drug design, road safety, forest fire prediction, education, agriculture and more.

Main research projects and grants:

- “AI for smart agriculture: Robot for weeding and soil analysis”, Al-Khwarizmi program, 2020-Now
- “Covid-19 modeling and tracking via AI and Graph Analysis”, 2020-Now
- “Enhancing Road safety with AI technology”, 2017-2022
- “Smart chair for predicting students' learning performance” (Patented technology), 2017-2019
- “Mining the Web for Insights on Violence Against Women and Conflict-Related Gender-Based Violence in the MENA Region and Arab States”, 2019
- “SHAMA: The First Moroccan Humanoid robot”, 2018
- “AI for emotion & mood recognition and content recommendation”(Patented technology), 2013-2016

## **Consultant (part time) at Fotahub, Inc, Santa Clara, USA**

June 2020 — December 2022

Fotahub, Inc is a tech company, specializing in delivering firmware and tinyML models over-the-air updates.

- Developed TinyML models for edge and edgeless platforms: ESP, STM, Arduino, Raspberry..etc.
- Consolidated Fotahub device SDKs (written in C, C++) to include tinyML support and OTA capability.
- Developed educational content and documentation to disseminate the technology.
- Held workshops and seminars for key customers to facilitate their technology adoption journey.

## **Phd candidate and lecturer at Cadi Ayyad University, Marrakech**

October 2005 — March 2013

Teaching university students. Courses: Administration and management of Networks, Human Machine Interface (GUI), Linux, TCP / IP, Computer Networks, Mobile Networks, Network Services Administration, Operating Systems.

## **🎓 Education**

### **Phd in Computer Science, Cadi Ayyad University, Marrakech**

November 2007 — March 2012

Graduated with High Honors

### **Engineering Degree in Systems and Networks, National Institute of Posts and Telecommunications, Rabat**

September 2002 — July 2005

Graduated with High Honors

## **★ Awards and Honors**

- Gold winner of the WomenTech Global AI Inclusion Award (2048 candidates, 181 countries) - 2020
- Among 30 Leading Arab Experts in AI (MIT Technology Review list) - 2022
- 1st prize of "Sustainability" in Solar Decathlon Africa and 3rd place overall -2019
- L'Oréal-UNESCO Prize: "For Women in Science", Maghreb region - 2014
- 1st Prize of research in the 11th edition of the National innovation and research contest (R&D Morocco)-2017
- Entrepreneurial Education Award, 13th edition of the National Business Day (CJD Morocco) - 2019
- Data2X Big Data Challenge Award, 2020
- Finalist of the 9th edition of innovation and research contest (R&D Morocco) - 2014
- Outstanding Paper Award Winner at the Literati Network Awards for Excellence - 2012