

BIOGRAPHY

- Computational Efficiency of Federated Learning techniques on Edge-Cloud Infrastructures Researcher
- Computational Intelligence & Deep Learning keen, ML Developer
- IoT Developer & Solution Architect
- Python developer
- Team work, Creative, motivated, ambitious.

INTERESTS

- Federated Learning
- Edge-Cloud Infrastructures
- Computational Efficiency and Energy Management
- Internet of Things (IoT)
- Data Science
- Embedded systems
- Astronomy & astronautics lover
- Traveling, learning and reading, sport, music, drawing, gaming.

PROJECTS

- ESI Weather (Mar Sept 2020)
- HEALTHLINE (Mar Jul 2021)
- Lectio (Dec 2021 Feb 2022)
- Màtia-ArtificialEye (Apr Jul 2022)
- Alzheimer.Al (Nov 2022 Feb 2023)
- E-GNNExplainer (Feb Jul 2023)

EDUCATION

- Doctoral Researcher (Ph.D) at <u>ENSAM</u> working at <u>CESI LINEACT</u> - France
- State Engineer in Computer Systems Engineering with a Master's Degree graduated from The Higher School of Computer Science 08 May 1945 - Sidi Bel Abbes - Algeria - in July 2023
- Baccalaureate in Maths 2018

CONTACT

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eagleeye1107.github.io

EagleEye1107

in Ahmed Rafik El-Mehdi BAAHMED

AHMED-RAFIK-EL MEHDI BAAHMED

STATE ENGINEER IN COMPUTER SYSTEMS ENGINEERING & DOCTORAL RESEARCHER (PH.D)

EXPERIENCE

- Doctoral Researcher (Ph.D) at ENSAM working at CESI LINEACT France
- <u>E-GNNExplainer</u> Paper Acceptance and Participation at <u>XKDD 2023</u>: 5th International Workshop on eXplainable Knowledge Discovery in Data Mining.
- Deep Learning intern at LIRIS Lab (DM2L) INSA Lyon (Feb Jul 2023).
- Project Developer & Manager of "Alzheimer.Al" a Computer Vision and Deep Learning-Based "Early Detection of Alzheimer's Disease System" using multiple approaches (Nov 2022 - Feb 2023).
- Project Manager of "Màtia-ArtificialEye" project which is a Computer Vision and Deep Learning-Based support system for Visually Impaired People in an outdoor environment (Apr Jul 2022).
- Practical internship at GSH "Groupe des Sociétés HASNAOUI" (Sept 2021).
- Web Developer and Quality Insurance Manager of "HEALTHLINE" project.
- Participation in COC'2021 (Mar 2021) and COC'2022 (May 2022).
- Cybersecurity Instructor & Trainer in The Alphabit Cybersecurity Cell.
- Project Manager of "Esi Weather" an AI weather station (Mar Sept 2020).

CORE COMPETENCIES

IT KNOWLEDGE & SKILLS

- Neural Networks Development (GraphNN, CNN, MLP, FFNN).
- Pytorch and Keras frameworks.
- Supervised & Unsupervised Machine Learning approaches.
- Computational Intelligence paradigms (DNN, FL, ANFIS, GA, GP)
- Explainable Artificial Intelligence methods (XAI)
- Computer vision & Image processing.
- Graph Theory & Geographic Information Systems.
- IoT Development and Solution Architecture (Edge-Fog-Cloud).
- WSN, LoRa, Sigfox, MQTT Protocol, Kafka Broker, IoT Cloud Platforms.
- Arduino & Raspberry Pi.
- Problem Solving & Automating tasks.
- Programming : Python, C/C++, SQL / DevOps : Git, GitHub, Docker.

SOFT SKILLS

- Leadership & Project management.
- Critical thinking & Problem solving.
- Communication & Public speaking.
- Flexible & Dynamic.
- Time management & Punctual
- Languages:

Arabic French English

CERTIFICATES

- Certificate of participation in the international conference COC'2022.
- Certificate of participation in the national conference CICT'2022.
- Certificate of participation in the international conference COC'2021 (paper link: HAL).
- Introduction to Bash Shell Scripting with Coursera Project Network.
- Elements of Artificial Intelligence.
- Managing Machine Learning Projects with Google Cloud.
- Penetration Testing, Incident Response and Forensics.
- Cybersecurity IT Fundamentals Specialization with **IBM**.