

Naji NAJARI

PHD IN MACHINE LEARNING

 <https://naji-najari.github.io/>

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 0698284344

WORKING EXPERIENCES

From 2019 to 2021

AI researcher: industry-academia thesis

Orange & INSA Lyon Grenoble FRANCE

- Studying machine learning-based anomaly detection, applied to network monitoring
- Publishing papers at international conferences
- Submitting two patents to INPI
- Reviewing conference papers
- Communicating research results

From February 2019 to August 2019

AI researcher : R&D intern

Orange & Ensimag Grenoble FRANCE

- Conducting research on IoT device fingerprinting using machine learning
- Publishing a paper at an international IEEE conference

From June 2018 to August 2018

Internship in mobile application development

LSI Technologies Grenoble FRANCE

- Developing a mobile application.

EDUCATION

From 2019 to 2022

PhD degree in Machine learning

INSA Lyon university and Orange Grenoble

- Robust unsupervised anomaly detection, applied to network traffic monitoring.
- Topics: unsupervised anomaly detection, transformers, autoencoders, variational autoencoders, extreme value theory, robust training, data processing.

From 2018 to 2019

Master's Degree in Computer Science : data science

ENSIMAG Grenoble

- Topics : data management, machine learning, data mining, probability, computer vision, convex and distributed optimization.

From 2017 to 2019

Engineer's degree : embedded systems and connected objects

ENSIMAG Grenoble

- Topics : IP networks, VoIP, security, object-oriented programming, signal processing. database management, network security.

From 2016 to 2017

Bachelor's degree in Physics, Electronics and Telecom

Phelma Grenoble INP Grenoble

From 2014 to 2016

Preparatory classes for the grandes écoles (CPGE)

IPEST La Marsa TUNISIE

ABOUT ME

I am Naji NAJARI, a PhD student at Orange and INSA Lyon. I study **machine learning-based anomaly detection**, applied to IoT device monitoring. Outside of work, I enjoy playing tennis, reading, and travelling.

SKILLS

Anomaly Detection

Machine learning

Time Series Analysis

Network Traffic Analysis

Data Processing

CODING

Pytorch, Tensorflow

Python, Java, R, C

PySpark, Kafka

Elasticsearch, Logstash, Kibana

Wireshark, NFStream, Ntop

LANGUAGES

English Fluent

French Fluent

Arabic Native language

Spanish Basic

PUBLICATIONS

- April 2022 **Robust Variational Autoencoders and Normalizing Flows for Unsupervised Network Anomaly Detection**
N. Najari, S. Berlemont, G. Lefebvre, S. Duffner and C. Garcia, The 36th International Conference on Advanced Information Networking and Applications, AINA 2022.
For more details, <https://naji-najari.github.io/publications/aina22>
- July 2021 **RADON: Robust Autoencoders with Dynamic Outlier Rejection**
N. Najari, S. Berlemont, G. Lefebvre, S. Duffner and C. Garcia, The 14th International Conference on Security of Information and Networks, SINConf 2021.
For more details, <https://naji-najari.github.io/publications/sin21>
- September 2020 **Network Traffic Modeling For IoT-device Re-identification**
N. Najari, S. Berlemont, G. Lefebvre, S. Duffner and C. Garcia, The IEEE International Conference on Omni-layer Intelligent Systems, IEEE COINS 2020
For more details, <https://naji-najari.github.io/publications/coins20>

PATENTS

- June 2022 **Contextual anomaly detection for the maintenance of IoT devices**
N. Najari, S. Berlemont, G. Lefebvre, Orange Meylan
- November 2020 **Assistance for the identification of malfunctioning devices using traffic metadata**
S. Berlemont, N. Najari, G. Lefebvre, Orange Meylan

REVIEWER

- April 2021 **ICANN'21**
The 30th International Conference on Artificial Neural Networks, 2021

VOLUNTARY EXPERIENCE

ALAMAL autism association
LPM Alumni
National Association of Tunisians Abroad

INTERESTS

Reading
Travelling
Tennis - Badminton
Football - Basketball