

## EXPERT PROFILE

### DR. MOHAMMED NAJAH MAHDI



- Position: Post-Doctoral Researcher
- Years of professional experience: 4 years
- Research Centre: Institute of Informatics and Computing in Energy (IICE)
- Research Forte:
  - Faceted Search
  - Data science and Data Analytics
  - 5G and Internet of things (IoT)
  - Energy efficiency

## EDUCATIONAL BACKGROUND

- PhD in Information and Communication Technology @ University Tenaga Nasional (UNITEN)
- Master of Science (IT) @ University of Malaya (UM)
- Bachelor of Engineering (B.Sc.) in Information Engineering University of Baghdad @ Baghdad, Iraq

## PROFESSIONAL EXPERIENCE

Dr Mohammed Najah Mahdi has been involved in several projects for Data Science Process, Big Data, internet of things (IoT), fifth-generation (5G) cell-free communication networks, Internet of Energy, Machine Learning and analysis data science projects (From 2017 till currently). I have participated in the Research project in Data science under the grant by Tenaga Nasional Berhad (TNB). I joined the Smart Software Project Assessment System Using Machine Learning Technique project under Tenaga Nasional Berhad in 2019. I was assigned to initiate a commercial software project assessment system. The software was being built and now in the software testing phase.

I have also engaged in collaboration with Multimedia University (MMU). My primary role under the collaboration is as a technical/scientific consultant and resource person/invited speaker for the Scalable Smartification of Commercial Buildings HVAC Systems using the Internet of Things and Machine Learning technology that they are developing. My proficiency has widened and has turned into education-orientated, where I juggled between researching and performing academic activities involving creating student-focused activities at UNITEN's College of Computing and Informatics (CCI).

In addition to research and academics, I also hold IT professional certificates such as CCNA, MSCE, and MOS. Currently, I am working on Machine Learning using Python and in the fields of Data Science, the internet of things (IoT), 5G and Software Engineering. I am highly motivated to contribute and serve the computer science and technology industry with my knowledge.

I have excellent publications records where I have published in prestigious journals like IEEE Access, Advanced Science, Engineering and Information Technology, Computer Science, MDPI Entropy, and more. As for Conference presentations, I have published on smart energy in Korea (TENCON2018), Intelligent informatics in Fukuoka, Japan (SAIN2019) and the conference on Networks, Computers and Communications (ISNCC'20) in Montreal, Canada.

## KEY PROJECT HIGHLIGHTS:

- Developed 5G Energy Saving Resource Allocation using Machine Learning which is anticipated to transform the future of wireless communication in terms of data rate and connectivity (Under the BOLD2020 grant).
- Designed and improved the Faceted search to solve the Information overload problem as applied to the work within data science for Big Data Application (Under the BOLD2018 grant).
- Building a Prediction System under the Smart Project Management model for managing the risks using Machine Learning. This project is ongoing. (Under the TNB SEED Fund 2019).