

Jihed Makhoulouf

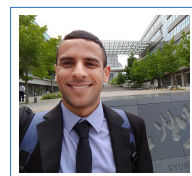
Postdoctoral Researcher,
Machine Learning

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Education

- 2018 – 2021 **Ph.D.**, *Kyushu University, Japan*
Research theme: AI in Education, Educational Data Mining, Learning Analytics, Machine Learning, Natural Language Processing
- 2015 – 2017 **Master's degree**, *University of Tunis El Manar, Tunisia*
Research theme: Multi-objective Optimization, Meta-heuristics, Evolutionary Algorithms – Pretty Good Honors
- 2012 – 2015 **Engineer's Degree**, *University of Tunis El Manar, Tunisia*
Major: Software Engineering of Information Systems – Good Honors
- 2009 – 2012 **Bachelor's degree**, *University of Tunis El Manar, Tunisia*
Major: Software and Information Systems – Good Honors

Work Experiences

- 2021 – Now **Postdoctoral Researcher at Kyushu University**
Building an educational Chatbot and an integrated platform for Educational Data Mining and Learning Analytics
- 2021 – Now **Postdoctoral Researcher at Osaka Prefecture University**
Building a (Chromium-based) browser extension to collect, then, analyze students' web search behavior data when solving programming exercises
More details about my projects and publications can be found here [↗](#)
- 2015 – 2021 **Self-Employed Software Engineer**
Full-stack Software Engineer at Topfrogs
 - **Mission:** Developing different versions of the web application of a company that offers various investment and real estate services for French expatriates.
 - **Reference:** Topfrogs <https://www.topfrogs.org/> [↗](#) (French).
Full-stack Software Engineer at Technology Experts
 - **Mission:** Building in-house tools to help the management and monitoring of several projects related to planning, digging, and building large scale wells.
 - **Reference:** Technology Experts <https://t-experts.com> [↗](#) .
Consultant at the Tunisian Coastal Protection and Development Agency
 - **Mission:** I was in charge of deploying a real-time monitoring system composed of a network of meteorological sensors. This project was under the supervision of the United Nations Development Programme.
 - **Reference:** Tunisian Coastal Protection and Development Agency & UNDP. <http://www.apa1.nat.tn/> [↗](#) (French) – <http://www.undp.org/> [↗](#)

Front-End Software Engineer at MADAR Consulting

- **Mission:** Short term job where I integrated a team and help them finish one of their products. I was in charge of developing the interactive map section of a fleet-management service.

- **Reference:** MADAR Consulting. <http://www.madarconsulting.com/> ↗

More details about my work experiences can be found here ↗

Technical Skills

DS & ML	Pandas, Numpy, Scikit-learn, Scipy, Matplotlib, tspot
DL	Keras, Tensorflow
NLP	Gensim, SpaCy, HuggingFace, MeCab
Ops	DVC, Docker, Github Actions
Dev & Script	Java, Python
Web	HTML5, CSS3, Bootstrap, JavaScript, Typescript, NodeJS, Yarn, PHP, Symfony, SlimPHP, Drupal, Django
Databases	MySQL, MongoDB, Neo4J

Achievements and Activities

Competitions and Challenges

02/2018 Second place in ASSISTments data mining competition, hosted by the Big Data for Education spoke of the Northeast Big Data Innovation Hub.

12/2014 Second place in IBM's Hackathon «Smarter Tunisia».

03/2014 Second place in the ICPC-like challenge «Top Coders Tunisia», Sponsored by IBM.

Certifications

06/2011 Microsoft Technology Associate (MTA) – "Software Development Fundamentals" – Exam Number: 98-361.

06/2011 Microsoft Technology Associate (MTA) – "Database Administration Fundamentals" – Exam Number: 98-364.

Entrepreneurship Contests

12/2018 Second place in the OnCampus Hult Prize Contest, qualified to the regional round in Manila, Philippines

05/2016 Third place in the "Samsung Fast Track" entrepreneurial training.

Volunteering Activities

2019 – 2020 Vice President at Kyushu University Foreign Student Association (KUFSA).

2018 – 2019 Project Officer at Kyushu University Foreign Student Association (KUFSA).

2011 – 2014 Active member at the "Freeways" students' circle, promoting open-source initiatives.

Languages

Arabic Mother Tongue

English Fluent – 97/120 TOEFL iBT

French Fluent – C1 Level in the TCF test