Bilel Moulahi

Data scientist, Akio · PhD in computer science

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Professional Experience

Akio
Montpellier, France

Data Scientist · *May 2020 - Present*

- Real-time NLP analysis of customer content (sentiment detection, topic extraction, etc.)
- Development of active learning solutions to enhance data analysis and processing
- Exploitation of large language models (LLM) for various NLP applications (document summarization, text classification, QA, etc.)
- Leveraging Speech-to-Text models to improve customer interaction transcription
- Creation of interfaces for testing and continuous improvement of AI models
- Automation of the development and deployment of AI models: implementation of CI/CD pipelines
- Exploitation of a local private Cloud environment for deploying and monitoring AI solutions
- Participation in a complete redesign and development of Akio Insights' NLP system

OpenClassrooms
Online

Data Scientist Student Mentor · *2018 - Present*

- Guide and advise students in carrying out their course projects

Acelys Informatique
Montpellier, France

Data Scientist - R&D · *Jul. 2018 - May 2020*

- Development, experimentation, and industrialization of Machine Learning/Big Data solutions
- Development of visualization applications for business users
- Implementation of supervision and monitoring solutions for AI solutions

Laboratory of Informatics, Robotics, and Microelectronics of Montpellier (LIRMM), University of Montpellier
Montpellier, France

Research Engineer - IT Project Manager · *Sept. 2017 - Jul. 2018*

- Development of a clinical evaluation mobile app for risk prediction and intervention in suicidal risk management: Android and iOS app, used by patients recruited in 5 partner centers of CHRU in Besançon, Brest, Créteil, Lille, and Montpellier
- Implementation of a predictive algorithm for the occurrence of a suicidal event
- Research project integrated into the Chair of Excellence of Suicidal Behaviors supported by the FondaMental Foundation. The project was covered by France Bleu[1] and Midi Libre[2].

LIRMM, University of Montpellier
Montpellier, France

Postdoctoral Fellow · *Sept. 2016 - Aug. 2017*

- Develop methods and technologies to detect at-risk individuals early on, based on their behavior in social media.
- DontDoIt Project[3], conducted in collaboration with the University Hospital Center (CHU) of Montpellier. The project was also covered by Radio Campus Montpellier[4] and in Midi Libre[5].

IRIT UMR 5505 CNRS, University Toulouse 1 Capitole
Toulouse, France

Temporary Teaching and Research Associate (ATER) · *2015 - 2016*

- 96 hours of teaching

Database Systems Research, Institute of Computer Science, University of Heidelberg
Heidelberg, Germany

Doctoral Research Internship · *Oct. 2014 - Nov. 2014*

- Proposal of an approach for building temporal summaries based on temporal annotation from news document collections.

IRIT UMR 5505 CNRS, University of Toulouse III Paul Sabatier
Toulouse, France

Temporary Teaching and Research Attaché (ATER) · *2014 - 2015*

- 116 hours of teaching

IRIT UMR 5505 CNRS, University of Toulouse III Paul Sabatier
Toulouse, France

Contractual Doctoral Student in Charge of Teaching: Monitor (DCCE) · *2013 - 2014*

- 64 hours of teaching

Educational Background

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[1] https://tinyurl.com/france-bleu-article
[2] https://tinyurl.com/midi-libre-article
[3] http://advanse.lirmm.fr/mood/
[4] https://tinyurl.com/podcast-mixcloud
[5] https://tinyurl.com/midi-libre-article-2

IRIT UMR 5505 CNRS, Generalized Information Systems Team, University of Toulouse III Paul Sabatier (UPS)

Toulouse, France

DOCTORATE IN COMPUTER SCIENCE

2011 - 2015

- Definition and evaluation of aggregation models for the estimation of multi-dimensional relevance in information retrieval (defended on 11/12/2015)

Technical Skills

Programming Languages	Python, JAVA, TypeScript
DevOPS, CI/CD	Docker, Rancher, Jenkins, Git, Nexus, ...
Workflow/Message-Broker	Celery, Pika, Temporal.io, RabbitMQ, Redis
Back-End Frameworks	Flask, FastAPI, Django
Front-end Frameworks	Angular, Streamlit
Databases	NoSQL (MongoDB, Elasticsearch), SQL (PostgreSQL)
Machine Learning/Deep Learning Frameworks	Transformers, Keras, Pytorch, Scikit-learn, xgboost, Numpy, Spacy, langchain...
Artificial Intelligence	Deep learning, NLP (QA, chatbots...), llm, text-to-speech, ...
	MLOps, Prompt engineering...

Education/Summer Schools

LxMLS 2017 Summer School

Lisbon, Portugal

INSTITUTO SUPERIOR TÉCNICO (IST)

2017

- 7th Lisbon Machine Learning School (`http://lxmls.it.pt/2017/`)

Awards

2015   **Award,** Best Paper Award at the IEEE/WIC/ACM WI'2015 Conference (Web Intelligence), (December 6-9, 2015)   *Singapore*

Scientific Publications

International journal articles with editorial committee	4
National journal articles with editorial committee	1
Contributions to international synthesis works	1
International conferences with selection committee	5
International Workshop articles	6
National conferences and workshops with selection committee	4
Total publications	**21**