



GHAZALA HCINI

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PERSONAL INFORMATION

Ghazala HCINI, PhD in Computer Science: Sciences and Technologies of Information and Communication (STIC), Department of Computer Science, University of Sfax, Tunisia

Hsinet Primary School, Segdel 9121, Sidi Bouzid, Tunisia

Sex F — Date of birth 05/01/1994 — Nationality Tunisian

Research lab: ReGIM-Lab. REsearch Groups in Intelligent Machines (LR11ES48), Sfax

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Google Scholar (Ghazala Hcini): <https://scholar.google.com/citations?user=TR8x24EAAA&hl=fr&oi=ao>

EDUCATION

Ph.D. in Sciences and Technologies of Information and Communication (STIC) National School of Electronics and Telecommunications of Sfax (ENET'Com)	2020 – 2023 University of Sfax
Research Master in Business intelligence Faculty of Sciences and Techniques of Sidi Bouzid	2018 – 2020 University of Kairouan
Basic license in Computer Science Faculty of Sciences and Techniques of Sidi Bouzid	2014 – 2017 University of Kairouan
Bachelor's degree in experimental sciences Ibn Arafa Souk Jedid high school	2013 – 2014 Sidi Bouzid

WORK EXPERIENCE

Lecturer	2023 – Present Higher Institute of Management of Gabes, University of Gabes
<ul style="list-style-type: none">• "Algorithmics"• "Introduction to big data and cloud"• "Cognitive Computing"• "Data Warehouse"	
Lecturer	2022 – 2023 Faculty of Sciences and Techniques of Sidi Bouzid, University of Kairouan
<ul style="list-style-type: none">• "Algorithmics and Data Structures", 21H course, 21H tutorials• "Big Data Frameworks and Technologies", 10.5H course, 21 tutorials• "Java Enterprise Edition JEE", 21H course, 10.5H tutorials• "Federated Project", 21 tutorials	
Lecturer	2021 – 2022 Faculty of Sciences and Techniques of Sidi Bouzid, University of Kairouan
<ul style="list-style-type: none">• "Algorithmics and Data Structures", 21H course, 21H tutorials• "Big Data Frameworks and Technologies", 10.5H course, 21 tutorials• "Java Enterprise Edition JEE", 21H course, 10.5H tutorials• "Federated Project", 21 tutorials	
Substitute teacher	2020 – 2021 Faculty of Sciences and Techniques of Sidi Bouzid
<ul style="list-style-type: none">• "Federated Project", 21 tutorials	

SUPERVISION: FINAL YEAR GRADUATION PROJECT

"Towards an intelligent platform for heart disease prediction" University of Kairouan	2022-2023
Designing a Digitized Access Control System for Delice Company University of Kairouan	2022-2023
"Implementation of a Stock Management Application using SCRUM" University of Kairouan	2021-2022

CO-SUPERVISION: RESEARCH MASTER

"Neural approach based on the vision transformer for hyperspectral image classification" University of Kairouan	2023-2024
"Automated identification and labeling system of dental anomalies in panoramic radiographs" University of Kairouan	2023-2024
"Classification of Sustainable Fashion Benchmarks Using Attention Mechanism" University of Kairouan	2022-2023
"Deep attention model for the classification of medical data base" University of Kairouan	2022-2023

RESEARCH PUBLICATIONS

Journals

- Jdey, Imen, **Ghazala Hcini**, and Hela LTIFI. "Deep learning and machine learning for malaria detection: overview, challenges and future directions." *International Journal of Information Technology & Decision Making*, (2023). **Q1**
- **Hcini, Ghazala**, I. Jdey, and H. Ltifi, "Improving malaria detection using l1 regularization neural network.," *JUCS: Journal of Universal Computer Science*, vol. 285, no. 10, 2022. **Q3**
- Awassa, L., Jdey, I., Dhahri, H., **Hcini, G.**, Mahmood, A., Othman, E., & Haneef, M. (2022). Study of different deep learning methods for coronavirus (COVID-19) pandemic: Taxonomy, survey and insights. *Sensors*, 22(5), 1890. **Q1**
- **Hcini, Ghazala**, I. Jdey, A. Heni, and H. Ltifi, "Hyperparameter optimization in customized convolutional neural network for blood cells classification," *Journal of Theoretical and Applied Information Technology*, vol. 99, pp. 5425–5435, 2021. **Q4**
- **Hcini, Ghazala** and I. Jdey, H. Dhahri, "Investigating Deep Learning for Early Detection and Decision-Making in Alzheimer's Disease: A Comprehensive Review" *Neural Processing Letters* **Q2**.
- **Ghazala Hcini**, Imen Jdey, "Privacy-Aware Malaria Detection: U-NET Model with K-Anonymity for Confidential Image Analysis", *Jordanian Journal of Computers and Information Technology (JJCIT)*, In Press, pp. 85 - 99, doi: 10.5455/jcit.71-1722944327. 2024 **Q3**

6.1 Conference

- **Hcini, Ghazala**, I. Jdey, and H. Ltifi, "Hsv-net: A custom cnn for malaria detection with enhanced color representation," in 2023 International Conference on Cyberworlds, IEEE, 2023. **Class C**
- Walid BM., **Ghazala H.**, Omar. M, Kamel B. and Imen J., "Customized Convolutional Neural Networks for Plant Disease Detection on Leaf Images," Workshop, International Conference on Verification and Evaluation of Computer and Communication Systems (VECoS). **Class C**
- **Ghazala Hcini**, Nada Bargougui and Imen Jdey, "Temperature Control System Enhanced by LSTM Predictive Modeling for Real-Time Monitoring and Adaptation", IEEE International Symposium of Systems, Advanced Technologies and Knowledge., (2024).

AWARDS AND ACHIEVEMENTS

Merit Award	12-05-2023
The first edition of the AI hackathon "Machine Learning Hackathon" of the University of Kairouan	
Oral communication: Symposium (ERSIA'2022)	05/06-07-2022
"An intelligent system for monitoring environmental conditions for ecological agriculture".	

ORGANIZATION CERTIFICATE

Trainer of "Machine Learning in Web applications"	06-02-2024
Higher Institute of Management of Gabes (I.S.G) Gabes, Tunisia	
Workshop on Intelligent Machines: Theory and Applications	26-12-2023
Palais Royal Hotel Sfax, Tunisia	
How to succeed in your defense	31-05-2023
Faculty of Sciences and Techniques of Sidi Bouzid. University of Kairouan	
Artificial Intelligence with Python	15-03-2023
Faculty of Sciences and Techniques of Sidi Bouzid. University of Kairouan	
LATEX: for scientific document creation	18/19-11-2022
Faculty of Sciences and Techniques of Sidi Bouzid. University of Kairouan	

CERTIFICATION

Workshop on Research Methodologies (REMET)	18-02-2023
Faculty of Sciences of Gafsa. University of Gafsa	
Statistical Analysis with SPSS	26/27-01-2023
Faculty of Sciences and Techniques of Sidi Bouzid. University of Kairouan	
Pedagogic Training	22/28 (02)-01 (03)-2023
National School of Engineers of Sfax. University of Sfax	
Installation of solar panels: PAQ-Co-Constructed	22/28 (02)-01 (03)-2023
Faculty of Sciences and Techniques of Sidi Bouzid. University of Kairouan	
English Training: PAQ-DGSE project: ProMISE	03 (06) - 05 (10)-2021
ENET'Com University of Sfax	
2021 Data Science and Machine Learning with R, 22 total hours	2021
On line Udemy	
Participation in the WIMTA'32 workshop	15/26-12-2020
ReGIM-Lab. REsearch Groups in Intelligent Machines (LR11ES48) University of Sfax	