

Marwa CHABBOUH

PHD-DATA SCIENTIST-PSM®

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Education

From January 2017 to December 2021	PhD in Computer Science with Business High Institute of Management of Tunis University of Tunis (Best Doctoral Thesis Award of ISG-Tunis, 2021)
From September 2010 to June 2013	MSc in Computer Science Faculty of Economics and Management of Sfax University of Sfax
From September 2007 to June 2010	BSc in Computer Science with Business High Institute of Management of Tunis University of Tunis
From September 2006 to June 2007	Baccalaureate in Mathematics Ezzahrouni Secondary School

Publications

- Marwa Chabbouh, Slim Bechikh, Efrén Mezura-Montes, Lamjed Ben Said : ["Imbalanced Multi-label Data Classification as a Bi-level Optimization Problem: A Case Study in miRNA-related Diseases"](#), Neural Computing with Applications (IF 5.102) , pp. 1–19, 2023.
- Marwa Chabbouh, Slim Bechikh, Chih-Cheng Hung, Lamjed Ben Said : ["Multi-objective Evolution of Oblique Decision Trees for Imbalanced Data Binary Classification"](#), Swarm and Evolutionary Computation Journal (IF 10.267), vol. 49, no. 1, pp. 1–22, 2019.
- Marwa Chabbouh, Slim Bechikh, Efrén Mezura-Montes, Lamjed Ben Said : ["A Review of Evolutionary Algorithms for Imbalanced Data Classification"](#), Applied Artificial Intelligence. [Under revision, 2023.](#)
- Marwa Chabbouh, Slim Bechikh, Efrén Mezura-Montes, Lamjed Ben Said : ["Multi-objective Evolution of Non-linear Multivariate Decision Trees: dealing with Overlapping in Multi-class Imbalanced Data Classification"](#), Journal of Heuristics. [Under revision, 2023.](#)

Work Experience

From January 2023 to June 2023	IBM Trainer High Institute of Management of Tunis University of Tunis Course : Predictive Analytics MAster Class (IBM)
Since September 2022	Assistant Professor High Institute of Business Administration in Gafsa University of Gafsa Machine Learning, Big Data, Python, Data Analysis, Cloud Computing

About me

Pursuing a career in applied artificial intelligence holds a strong allure for me, as it offers the opportunity to delve deeper into the realms of data science, numbers, and advanced data analysis. I possess an inherent curiosity for working in a dynamic and stimulating environment, one that fosters collaboration within a passionate and innovative team. By embracing these new challenges, I am ready to push myself to new heights, leveraging the power of artificial intelligence to unlock groundbreaking insights and drive transformative solutions.

Certifications

- [Microsoft Certified: Power BI Data Analyst Associate](#)
- [PSM \(Professional Scrum Master I\)](#)
- Introduction to Programming Using Python - Microsoft
- [Business Process Analyst-IBM](#)
- [Big Data Engineer V2 -IBM](#)
- [Predictive Analytics Modeler - IBM](#)
- [Cloud Application Developer - IBM](#)
- Certificat Informatique et Internet (C2i) niveau 1
- E-learning (Accenture)

Formations

Advanced Machine Learning with TensorFlow on Google Cloud Platform (Coursera) IN PROGRESS

Work Experience

From October 2021 to September 2022	Data Scientist Minister of Finance Tunis
From May 2017 to October 2021	Data Analyst Minister of State Properties and Land Affairs of Tunisia Tunis
Since January 2017	Data Science Researcher and Member of Modelisation et Simulation group (MoS) Strategies for Modeling and ARTificial inTElligence Laboratory Tunis Multi-objective evolution of oblique decision trees for imbalanced data binary classification <u>Environment</u> : Machine Learning, JAVA, Eclipse, Decision Trees, Multi-objective Optimization, Evolutionary Algorithms, Statistical Tests
From September 2016 to June 2017	Assistant Professor High Institute of Technological Studies of Nabeul University of Carthage <u>Course</u> : C Programming
From September 2015 to January 2016	Assistant Professor High Institute of Technological Studies of Nabeul University of Carthage <u>Courses</u> : C programming, Web Development (PHP5), C2i
From September 2014 to January 2015	Assistant Professor High Institute of Technological Studies of Nabeul University of Carthage <u>Courses</u> : C programming, Computer and Internet Certificate (C2i) Preparation, Database Management System
From September 2014 to June 2015	Assistant Professor Faculty of Economics and Management of Nabeul University of Carthage <u>Courses</u> : MySQL, E-Learning, IT Security - Supervision of three BSc Student
From September 2013 to June 2015	High School Teacher Hopes Private School Nabeul <u>Course</u> : Information and Communication Technologies
From March 2012 to May 2013	Data Science Researcher and Member of ANLP Research Group Multimedia, InfoRmation Systems and Advanced Computing Laboratory (MIRACL) University of Sfax Developement of a Natural Language Processing project for the Automatic Vocalization of Arabic Texts <u>Environment</u> : Machine Learning, JAVA, Eclipse, Hidden Marcov Chain Model, Baum-Welch Algorithm
From February 2010 to April 2010	JAVA J2EE Developer SWIB Tunis Development of a CRM module <u>Environment</u> : JAVA/J2EE, Eclipse, Servlet, MVC, JDBC, JSP, JSF, Tomcat, JBoss, MySQL

Formations

Data Science Hands-On with Open Source Tools (cognitiveclass.ai)

Python Libraries for Data Science (OpenClassrooms)

Computer skills

Machine Learning, Data mining, Mathematics, Statistics, , NLP, Modeling

Data Collection, Data Preparation, Data Analysis

Statistical Analysis : SPSS - IBM SPSS Modeler

Programming : JAVA/J2EE, Python, C

ANACONDA, Jupyter

Big Data, Hadoop, HDFS, MapReduce, Spark (IBM Watson Studio)

Web development : HTML, Java script, PHP, CSS, PHP5

IBM cloud (waston)

Latex, TeXnicCenter

Soft Skills

Producing Data Visualizations, Documenting, Presentation

Critical Thinking, Problem Solving, Working Independently

Collaboration, Verbal & Written Communications

Languages

Arabic Native

English Advanced

French Advanced

Interests

Travel and Discover New Places

Work Experience

From July 2009 to
August 2009

PHP Developer
SWIB Tunis

Development of a file-sharing website

Environment : HTML, JAVA, CSS, PHP