MOTASEM OBEIDAT

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motasem-obeidat

📇 Summary

Ph.D. student in Computer Science at the University of Kentucky with a strong research background in Artificial Intelligence. My research is in the field of data science and biomedical informatics, with a methodological emphasis on natural language processing, machine learning, and data mining.

🎓 Education

Feb 2016 – Sep 2019	**Bachelor's Degree / Computer Science,** *Yarmouk University* ↗ GPA: 86.9 Rank: Excellent (Second) B.Sc. Project Title: A Drop Equals Life Application	Irbid, Jordan
Sep 2019 – Jul 2022	**Master's Degree / Artificial Intelligence,** *Yarmouk University* ↗ GPA: 86 Rank: Very Good (Third) M.Sc. Thesis Title: Finding Optimal Kernel Size Hyperparameter for Convolutional Neural Network Using Discrete Wavelet Transform	Irbid, Jordan
Aug 2023 – present	**Doctorate Degree / Computer Science,** *University of Kentucky* ↗ GPA: 4.0	Lexington, United States

💼 Professional Experience

Jan 2024 – present	**Graduate Research Assistant,** *University of Kentucky* Conduct research in the field of data science and biomedical informatics, with a methodological emphasis on natural language processing, machine learning and data mining	Lexington, United States
Jul 2022 – Jul 2023	**Part-Time Instructor,** *Yarmouk University* ↗	Irbid, Jordan

- Courses:
  - CS (110) - Python Programming Language - 3 Credit Hours
  - CS (111L) - Python Programming Language Laboratory - 1 Credit Hour
  - CS (210) - Object Oriented Programming (OOP) - 3 Credit Hours
  - CS (352) - Problem Solving 1 (C++ & Python) (Course Coordinator) - 1 Credit Hour
  - CS (452) - Problem Solving 2 (C++ & Python) (Course Coordinator) - 3 Credit Hours

- Assist faculty members with classroom instruction, exams, exam monitoring, grades, record keeping, tracking attendance, and other miscellaneous projects

2018	**ACPC (2018) Jordanian Collegiate Programming Contest,** *Applied Science Private University* ⧉ Participate with a group of students in a problem-solving programming contest	Amman, Jordan
2017	**ACPC (2017) Jordanian Collegiate Programming Contest,** *Jordan University of Science & Technology* ⧉ Participate with a group of students in a problem-solving programming contest	Irbid, Jordan

🖾 Publications and Conferences

Utilizing Different Machine Learning Techniques to Examine Speeding Violations, *Applied Sciences* ⧉
Published 2023

Modeling Driver Behavior Through Yellow Phase at Urban Signalized Intersections Using Logistic Regression and Machine Learning, *Journal of Advanced Transportation*
Published 2023

Traffic Signs Detection & Recognition in Jordan Using Machine Learning and Deep Learning,
The Deanship of Scientific Research and Graduate Studies at Yarmouk University ⧉
Research Partnerships and Artificial Intelligence Applications Conference
Jun 2023

Finding Optimal Kernel Size Hyperparameter for Convolutional Neural Network Using Discrete Wavelet Transform, *Journal of Information Technology and Control*
Submitted 2023

Traffic Sign Detection and Recognition in Jordan Based on Machine Learning and Deep Learning
Submitted 2024

🗁 Projects

Extracting Arabic Text from Banner Images Using Enhanced Arabic EasyOCR

Rock Components Classification Using Yolov3 and Darknet Framework

Human Facial Expression Recognition Using Enhanced DeepFace Model

Arabic Spoken Document Retrieval for Jordanian Cities

Image Classification of Archaeological Sites in Jordan

B.Sc. Project: A Drop Equals Life Application: People donate blood from their homes when needed using an android mobile app

M.Sc. Thesis: Finding Optimal Kernel Size Hyperparameter for Convolutional Neural Network Using Discrete Wavelet Transform

🌐 Languages

Arabic ● ● ● ● ●   English ● ● ● ● ○

Skills

Artificial Intelligence (AI) ● ● ● ● ●
Machine Learning, Deep Learning, Computer Vision

Operating Systems ● ● ● ● ●
Windows, Linux, Mac

Computer Application Softwares ● ● ● ● ●
MATLAB, Anaconda, Android Studio, Unity

Microsoft Office Programs ● ● ● ● ●
Word, Excel, PowerPoint

Working as a team member as well as independently ● ● ● ● ●

Teaching ● ● ● ● ●

Problem Solving ● ● ● ● ●

Data Structures ● ● ● ● ●

Algorithms ● ● ● ● ●

Latex ● ● ● ● ●

C++ ● ● ● ● ●

Python ● ● ● ● ●

R ● ● ● ● ●

C# ● ● ● ● ●

Java ● ● ● ● ○

Visual Basic ● ● ● ● ●

C ● ● ● ● ●

JavaScript ● ● ● ● ○

Android ● ● ● ● ●

Dart ● ● ● ○ ○

⚬ References

Ramakanth Kavuluru, *Professor,* University of Kentucky
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Dr. Abed Al Raoof Bsoul, *Associate Professor,* Yarmouk University
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Dr. Moy'awiah A. Al-Shannaq, *Associate Professor,* Yarmouk University
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Dr. Rafat M. Alshorman, *Associate Professor,* Yarmouk University
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