



Zainab Abo-Hashima Saad

Assistant Lecturer | Machine Learning Engineer

PERSONAL INFORMATION

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Google Scholar: <https://scholar.google.com/citations?user=U9fb6tQAAAAJ&hl=en&oi=sra>

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ResearchGate: <https://www.researchgate.net/profile/Zainab-Abohashima>

PROFILE

Zainab Abohashima received M.Sc. degree in computer science from Faculty of Computers and Information, Minia University, Egypt, in 2022. She is currently works as an assistant lecturer with Faculty of Computers and Information, Damanhour University, Egypt. Her research interests include quantum machine learning, deep learning, and machine learning.

WORK EXPERIENCE

Assistant lecturer, Faculty of Computers and Information, Damanhour University, Egypt.

July 2023 – Present.

Teaching Assistant, Faculty of computer science, Nahda University, Bani Seuf, Egypt.

November 2016 – July 2023.

- Assist students to understand their syllabus.
- Guide and supervise students during graduation projects.

VOLUNTEER WORK

- Volunteer at the Nation's Future Party.
- Organizing medical convoys in the Nation's Future Party

MEMBERSHIPS

- Member of the Quadrat Misr Organization for Youth and Development.
- Member of the Countryside Ambassadors for Sustainable Development.
- Member of the computing and artificial intelligence research group (CAIRG).

- Member of the HQC research group.

EDUCATION

- **PhD studies in progress, Computer Science Department. Faculty of Computers and Information, Assiut University, Egypt.**
July 2023– Present
- **Pre-PhD, Computer Science Department. Faculty of Computers and Information, Assiut University, Egypt.**
October 2022 – July 2023
- **MSc degree, Faculty of Computers and Information, Minia University, Egypt.**
January 2019 – March 2022.
Thesis Title: “Quantum Machine Learning Techniques for Medical Data Processing”
- **The Coding School, Introduction to Quantum Computing with IBM Quantum**
September 2020 – May 2021
- **Pre-master, Computer Science Department. Faculty of Computers and Information, Minia University, Egypt.**
October 2017 – July 2018
- **ITI Diploma in Professional Development, Information Technology Institute (ITI), Ministry of Communications and Information Technology (MCIT), Assuit Branch, Egypt.**
September 2015 – Jun. 2016
- **BSC degree, Computer Science Department. Faculty of Computers and Information, Minia University.**
September 2011 – July 2015
Accumulative Grade: Excellent with honors.

PERSONAL SKILLS

Languages

- Arabic: Mother tongue
- English: Good

Communication skills

- Teamwork gained through my work in various types of teams from research teams to Industrial production teams.

ADDITIONAL INFORMATION

Publications

- Houssein, Essam H., **Zainab Abohashima**, Mohamed Elhoseny, and Waleed M. Mohamed. "Machine learning in the quantum realm: The state-of-the-art, challenges, and future vision." **Expert Systems with Applications (2022): 116512. (IF: 8.66)**
- Houssein, E.H., **Abohashima, Z.**, Elhoseny, M. and Mohamed, W.M., 2022. Hybrid quantum-classical convolutional neural network model for COVID-19 prediction using chest X-ray images. **Journal of Computational Design and Engineering, 9(2), pp.343-363. (IF: 6.16)**
- Houssein, E.H., **Abohashima, Z.**, Elhoseny, M. and Mohamed, W.M., 2021, July. An efficient binary harris hawks optimization based on quantum SVM for cancer classification tasks. **In The 2nd International Conference on Distributed Sensing and Intelligent Systems (ICDSIS 2021) (Vol. 2021, pp. 247-258). IET.**
- **Abohashima, Zainab**, Mohamed Elhosen, Essam H. Houssein, and Waleed M. Mohamed. "Classification with quantum machine learning: A survey." **arXiv preprint arXiv:2006.12270 (2020).**

Projects

- Classification of Chronic Kidney Disease (CKD) Cases.
Link: [CKD \(ckdclassification.herokuapp.com\)](http://ckdclassification.herokuapp.com)
- Prediction House Price.
Link: [Prediction House Price \(houseprice510.herokuapp.com\)](http://houseprice510.herokuapp.com)
- Desktop restaurant application.
Tools: C#, LINQ, SQL Server 2012, Entity Framework - Code First Migrations.
- Online Smart Radar.
Tools: JavaScript, jQuery, C#, ASP.Net, ADO.Net, SQL Server 2012.
- Online Hyper Market.
Tools: HTML5, CSS, JavaScript, C#, LINQ, SQL Server 2012.
- Clinic for You web application.
Tools: C#, ASP.Net, ADO.Net, SQL Server 2008.

Courses

- Data Analysis Challenger, Udacity,2020.
- AWS Machine Learning Foundations course, Udacity,2020.
- Essential Math for Machine Learning: Python Edition, edx,2019
- Analyzing Data with Python, edx, 2019
- Quantum Machine learning, edx,2019.

- Machine Learning with Python, Udemy, Apr.2019
- TOT (Presentation, Listening, Teaching, Communication), Sep.2017.

Job-related skills

- Analysis and Design of Algorithms
- Problem Solving Techniques
- Software Engineering
- Operating Systems
- Object-Oriented Programming
- File Organization
- C++ Programming Language
- Java Programming Language
- Python Programming Language
- Data Structures

*References and Documents are available upon request.