

**Personal information:**

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GitHub:

<https://github.com/SamarShabanCS>

**Education:**

- B.Sc. degree in computer science, Fayoum University, Egypt May 2013 by excellent grade with honor.
- Master degree in computer science Cairo University, Egypt May 2020.
- Ph.D. student in computer science Fayoum University, Egypt 2021.

**Positions:**

- Demonstrator at computer science department, Fayoum University (April 2014-June 2020).
- Teaching Assistant at computer science, Fayoum University (July 2020-December 2021).

**Development Skills:**

- Python (Pytorch, tensorflow, keras, sklearn, Pandas, numpy, Matplotlib)
- Amazon AWS (EC2)
- IBM Watson Studio Platform
- Matlab (R2014) (R2020a)
- Machine Learning algorithms( SVM, Naïve base, logistic regression, ensemble learning, neural network)
- Deep Learning( CNN, LSTM, AE)
- Reinforcement Learning
- Time series analysis

- Anaconda, Jupyter notebook, Spyder
- C++,C,C#( Visual studio)
- *OpenGL( C++, Android)*
- Java SE( Net Beans, Eclipse)
- PHP, CSS, html, java script
- Android (eclipse, android studio)
- SQL Databases (SQL Server 2008 R2, Oracle 12C, MySql, SQLite)
- Windows OS and Ubuntu LTS Administration
- Github
- VMware workstation

### **Training/certificates:**

- International student training exchange program (Oman- Egypt) at Unizwa University (Internship 2012).
- Certificates:
  - **Business Intelligence Analyst - Mastery Award for Students 2016**
  - **Coursera: Neural Networks and Deep Learning 2017**  
<https://coursera.org/share/86a960b3d9c89383d5d191b508dbe849>
  - **Coursera: Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization 2018**  
<https://coursera.org/share/0c04738073c26059f32a0f9d55683be9>
  - **Udacity nanodegree: Machine learning engineer 2019**  
<https://confirm.udacity.com/N59NQRJ>
  - **Artificial Intelligence Analyst 2020 - Explorer Award**
  - **IBM Badge: Artificial Intelligence Analyst 2020 - Mastery Award**
- Research member of the funded project “A Cloud-based service composition framework” from the Academy of Scientific Research and Technology (ASRT), Egypt, Science UP Grant No. 6646 (2020-2021).

### **Research interests:**

- Machine Learning & Deep Learning
- privacy-preserving machine learning
- federation learning/Distributed Learning

## **Publications:**

- **Haytamy, S. S., Kholidy, H. A., & Omara, F. A. (2018, June).** ICSD: integrated cloud services dataset. In *World Congress on Services* (pp. 18-30). Springer, Cham.
- **Haytamy, S., & Omara, F. (2020).** A deep learning based framework for optimizing cloud consumer QoS-based service composition. *Computing*, 1-21(**Springer, IF=2.22**).
- **Haytamy, S., & Omara, F. (2020, February).** Enhanced QoS-Based Service Composition Approach in Multi-Cloud Environment. In *2020 International Conference on Innovative Trends in Communication and Computer Engineering (ITCE)* (pp. 33-38). IEEE.
- **Kaseb, M., Badry R., & Haytamy, S. (2021).** Distributed query optimization strategies for cloud environment. *Springer, journal of Data, Information and Management*, 3(4), 271-279.
- **Alshaimaa M. Mohammed, Samar Sh. Haytamy, Fatma A. Omara (2022).** Location-Aware Deep Learning-Based Framework for Optimizing Cloud Consumer QoS-Based Service Composition. *International Journal of Electrical and Computer Engineering (IJECE)* (**Minor Reviews**)

## **Development Projects:**

- *Oman-Egypt Relationships* web application using Asp.net in Oman, UNIZWA University during 3<sup>rd</sup> year summer training 2012.
- Graduation project: Detecting road bumps android Application 2013.
- Adding system calls and building Linux/Ubuntu kernel 20.04 LTS
- Working with digital signals: calculating heart rate from ECG mat file and text-audio steganography using Matlab.
- Building mini-compiler using Flex, Bison, C#
- Building various ML, DL, and RL applications( Creating Customer Segments, Finding Donors for Charity, Multi-class Image Classification, Train a Smartcab How to Drive) <https://github.com/SamarShabanCS/ML-udacity/tree/master/Projects>
- Building [cloud service broker system](#) using LSTM, AE, PSO

## **Teaching courses:**

- [Digital signal processing](#)
- [Operating systems](#)
- [Compiler theory](#)
- [Computer graphics](#)
- [Neural network](#)

## **Languages:**

Arabic, English, French(A2)