

# Dr. Haitham ALHAJI

1994 — Single

66 Professional in AI and Machine Learning with a keen interest in Computer Vision. Experienced in teaching and guiding audiences in Computer Science, with practical projects aimed at making life smarter and easier. 99



## Experiences

### DP Duhok, Duhok — Web Developer & Graphic Designer

March 2022 - Present as Part-Time

(Ref: Yousif Zewi, yousif.zawi@dpduhok.com)

### Cihan University, Duhok — AI Centre Assistant

July 2023 - Aug 2024 as Full-Time

(Ref: Bayar M. Rasheed, bayar.marane@duhokcihan.edu.krd)

### Harikar NGO / GIZ, Duhok — Media Officer

Sep. 2021 - Sep 2022 as Full-Time

(Ref: Brwa Hikmet, brwa52@gmail.com)



## Education

### Ph. D., Mosul University, IRAQ

Sep. 2022 - Present (Machine Learning / Text-To-image, NLP, Computer Vision, GAN)

As a Ph.D. Candidate, I am continually exploring advanced areas such as artificial intelligence, data mining, and machine learning developing a deep understanding of these fields and their practical applications.

### M. Sc., Bahçeşehir University, TURKEY — 89.5%

Feb. 2019 - Apr. 2021 - Computer Engineering (Artificial Intelligence/Patterns Recognition)

During my master's degree, I explored new academic areas, such as AI, data mining, and machine learning, and gained valuable insights into research and academic writing. It was a fully-funded scholarship

### B. Sc., Mosul University, IRAQ — 83.8%

Oct. 2013 - June 2017 - Computer Science (Internet of Things)

The gateway to my desire, so I started my academic life and learned what is coordinated and organized in my specialization in many aspects. IoT as Home automation was my graduation project. I'm TOP 2<sup>nd</sup> graduation class.



## Languages (3-Multilingual)

Arabic, English (certified by [TOEFL](#), BAU, UoM) and Kurdish



Zerka - Duhok - IRAQ

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## What I'm lecturing

- Computer Skills and [Academic Computing](#) guiding students through essential digital competencies and academic applications of technology.
- Artificial Intelligence / [ML](#) An in-depth exploration of artificial intelligence and its application in various domains. Topics include machine learning, natural language processing, and Data Science
- Computer Network & Security [TCP/IP](#) focusing on the principles of networking and safeguarding digital infrastructures against security threats.
- Microprocessor & Operating Systems Covering the fundamentals of microprocessor architecture and the intricacies of operating system functions and management.
- Database Administrative [DBA](#) Providing MySQL database and others with its DDL, DML, and DCL
- Programming focusing on developing students' proficiency in these languages through practical coding exercises and foundational concepts.

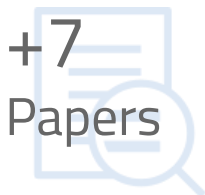


## Certifications

Deep learning specialist *Stanford University* provided Courses after passing five stages.

Artificial intelligence techniques, dealing with Keras and modern technologies such as Transfer Learning from the Pluralsight platform.

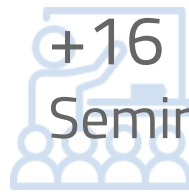
Humanities skills, in many that may illuminate the workflow as in management, media, planning and design issued by various places as IALD, Edraak, Al Jazeera Institute and TRT.



+7  
Papers



+10  
Projects



+16  
Seminars

 **Projects — as Software Engineer**
**Chatbot** — *AI-based chatbot*

The artificial intelligence bot provides a communication service and answers customer inquiries on various communication and social platforms such as Facebook, Telegram, WhatsApp, and web pages.

**Youth Leadership Forum 5** — *Organizing the internal affairs of the forum.*

We provide a work environment for the Fifth Leadership Youth Forum pioneers, managing it and facilitating dealing with it with the organisational aspect in terms of conferences, workshops, meals, and the rest of the events.

**Face Emotion Recognition** — *Find out what the face hides.*

We provide the possibility of recognising facial gestures for the computer through training on many pre-entered images and then exposure to them through the camera to find the appropriate expression for the face exposed to the input unit.

**Educational Mana. Sys.** — *Communication with the public.*

We hold seminars and scientific lectures and provide certificates to complete the courses held directly through live broadcast platforms.

**Registration** — *Submitting for competition.*

Any nomination process for a party that asks you to collect your information and then sort it according to a certain standard, this system allows you to complete these steps smoothly.

**Library Manag. Sys.** — *Books & around them.*

An interactive system for the community of book management and a mechanism within it and search for it cooperatively, borrowing, classification and other processes pour the library its dynamic shape in growth.

**Home Automation** — *Automate what's around you.*

Control your home remotely via arduino, in a wireless way, and centrally. By connecting the general electrical system of the house with a central processing unit, it will reach all parts of the place.

**RealTime Infrastructure** — *Responding to the high pressure of the service request.*

Excessive pressure and servicing may try to provide a suitable environment to deal with several servers and distribute that pressure on them equally with the support of the CICD service to improve the service development process with programming the shell scripts.

**E-Commerce** — *You are a customer, and others are a customer.*

An e-commerce web application helps in marketing and managing products and existing purchases remotely.

**Robot Gesture Controller** — *Embedded System remote controlling a Vehicle.*

an embedded system that allows remote vehicle control through hand gestures. it translates hand movements into commands for the vehicle, enabling intuitive and responsive navigation.



Artificial Intileience



Hosting



Linux (Ubuntu)



Docker



Android



MySQL



MySQL



Cloud Services



Flutter



NodeJS



Frontend



Platform Heroku



Multi-Users



C++



Arduino



Electronic



Visual Studio



Python



OpenCV



AWS Cloud



Data Collector



Scripting



RPA



WordPress



## Designs — as Graphic Designer

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### **Annual Report** — *Infographic*

a document produced by a company that provides information about its financial performance and operations over the past year, including a review of its accomplishments, challenges, and future prospects.

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### **Calendar** — *Wall & Desk*

used to organize days and events, consisting of months, weeks, and days. It helps individuals and organizations plan and keep track of time for social, religious, commercial, or administrative purposes.

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### **Social Media** — *Visual Identity*

the creative aspect of social media content, including visual elements like images and videos, used to make engaging and visually appealing content that communicates effectively with the target audience and helps to establish a consistent brand image across different platforms.

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### **Powerpoint** — *Interviews & Marketing*

creating visually appealing and engaging presentations using Microsoft PowerPoint software, including designing and formatting slides, selecting appropriate fonts, colors, and images, and creating visual aids to enhance the message and engage the audience.

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### **Catalog** — *Books & magazine*

a publication, usually in print or online, that provides a list of items or products for sale, along with descriptions, prices, and other relevant information. Catalogs are often used by retailers, manufacturers, and service providers to showcase their offerings and attract customers.

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### **Posters** — *Banners & Lighting*

a visual medium that displays information or promotes a message using text, images, and graphics, often displayed in public places to attract attention and convey a message to a large audience.

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### **Videography & Editing** — *A-Z*

The process of creating videos, involving capturing, editing, and producing content using digital technology. a range of industries, including media, advertising, education, and entertainment, to convey information and messages in a dynamic and engaging way.

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### **Human Identification with Finger Vein Image Using Deep Learning — IEEE**

*2021 5th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)*

Biometrics involves analyzing human characteristics for identification. This thesis develops a finger-vein identification system using Convolutional Neural Networks (CNN). Finger veins, which need Near Infrared (NIR) imaging, undergo preprocessing, pattern extraction, and matching. The proposed CNN model, with multiple layers, achieved 99.78% accuracy, outperforming previous methods.

### **CNN based Smart Activity Recognition for Elderly and Physically Disabled — ESR Groups**

*Journal of Electrical Systems — Apr. 2024*

Knowledge and expertise greatly enhance well-being, yet individuals with physical disabilities like blindness and deafness often struggle to achieve a fulfilling life. The SARD (Sensory Augmented Reality Device) is designed to address these challenges by capturing images and converting them into auditory information, helping users navigate their surroundings with confidence and independence.

### **Text-to-Image Synthesis A Comprehensive Review and Analysis — Springer Series**

*Algorithms for Intelligent Systems — 2024*

This paper aims to review the models that convert keywords into images, focusing on visual and semantic accuracy. It reviews methods, datasets, and evaluation metrics in text-to-image synthesis.

### **Text-to-Image Datasets: Characteristics, Challenges, and Opportunities — International Journal**

*International Research Journal of Innovations in Engineering and Technology — 2025*

This paper aims to review the models that convert keywords into images, focusing on visual and semantic accuracy. It reviews methods, datasets, and evaluation metrics in text-to-image synthesis.

### **Leveraging GANs and Vision Transformers for Text-to-Image Synthesis — Scopus Q3**

*Iraqi Journal of Science (IJS) — 2025*

GANViT is a fast and efficient text-to-image synthesis model that combines vision transformers in both generator and discriminator to overcome the limitations of data-heavy, slow multi-phase processes..

### **Tale Visualizer: Leveraging Generative AI for Visual Storytelling — Scopus Q3**

*Al-Qadisiyah Journal for Engineering Sciences — 2025*

This study introduces a novel text-to-image framework for visualizing long-form narratives through sequential image generation, using a text context artist model that incorporates prior image-caption pairs..

### **SoundCrafter: Bridging text and Sound with a diffusion model — Scopus Q2**

*Applied Computer Science — 2025*

SoundCrafter is a text-to-sound framework that leverages diffusion models in the mel-spectrogram domain guided by CLAP embeddings, improving both quality and efficiency over prior methods.


**Courses — What I'm lecturing**

**Artificial Intelligence/ML — *Infographic***

An in-depth exploration of artificial intelligence and its application in various domains. Topics include machine learning, natural language processing, and [Data Science](#).


**Computer Network & Security — *TCP/IP***

in-depth exploration of computer networks and their security. Students will learn about network architectures, protocols, and security mechanisms, including encryption, authentication, and access control.


**IT & Computer Skills — *Overview***

A broad introduction to information technology and computer skills, covering topics such as computer hardware and software, operating systems, productivity tools, and networking


**Algorithm & Data Structure — *Sorting***

a comprehensive introduction to algorithms and data structures, covering topics such as searching, sorting, graph algorithms, and dynamic programming


**Computer Vision — *Image Processing***

Providing an introduction to computer vision, covering topics such as image processing, feature extraction, object recognition, and machine learning techniques for computer vision.


**Programming — *OOP***

Concepts of programming, including data types, control structures, functions, and object-oriented programming. Students will learn how to implement algorithms and solve problems using programming languages such as Python, Java, and C++


**Database System — *RDM***

A comprehensive introduction to database systems, covering topics such as data modeling, relational algebra, SQL, database design, and data warehousing.


**Operating System — *Process Management***

Introduction to operating systems, covering topics such as process management, memory management, file systems, and device drivers.

