



Fallah H. Najjar

PhD candidate at UTM

CONTACT

- +9647807445833
- fallahnajjar@gmail.com
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- Iraq, Kufa

LANGUAGES

- Arabic
- English
- Persian

ABOUT ME

Fallah H. Najjar was born in Iraq, Najaf, in 1985. He received his diploma in Computer Systems Techniques from Al-Furat Al-Awsat Technical University, Technical Institute of Najaf, in 2011, his B.Sc. degree in Software Engineering from Al-Imam Ja'afar Al-Sadiq University in 2015, and his MSc degree in Computer Science from the University of Kufa in 2019. Also, he is currently a Ph.D. student at UTM - Malaysia since 30-10-2022. His research interests are medical image analysis, machine learning, image processing, deep learning, computer vision, and data science.

EDUCATION

- 2009 – 2011 **Najaf Technical Institute**
Diploma of Computer Systems Techniques
Project : Payroll management system using Excel and VBA
Average: 82.408, 4th Student in degree
- 2011 – 2015 **Al-Imam Ja'afar Al-Sadiq University**
BSc of Software Engineering
Project: Dental Clinical Services Website
Average: 79.31, 1st Student in degree
- 2016 – 2018 **UNIVERSITY OF KUFA**
MSc of Computer Science
Thesis title: A kernel Based Evolving Fuzzy System Classifier
Average: 73.33
- Oct 2022 ... **University of Technology Malaysia**
PhD of Computing
Dissertation title:
Average:



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SKILLS

- Microsoft Office Professional
- G-Suite Professional
- Data Analysis (Matlab, Python) Professional
- Community & Social Media Professional
- Management & Leadership Professional
- Desktop Applications Professional

PROJECTS

-  2011 **Payroll management system using Excel and VBA**
-  2013 **E-Bank System Management**
Deposit, Withdraw, Loan, Transfer, Payment, Facilities
-  2015 **Dental Clinical Services**
Built in ASP. Net
-  2016 **Image Editor Center**
Restoration, Transformation, Enhancement, Conversation
-  2016 **Color, Edges, Objects Detection**
Detecting objects according to their color, shape, Edges
-  2018 **A Kernel Based Evolving Fuzzy System Classifier**
Novel Method to applied kernel method to Evolving fuzzy system
-  2019 **Student Information System (SIS)**
High quality SIS, Built using VB.Net and SQL
-  2020 **Documents Management System (DMS)**
High quality DMS, Built using VB.Net and SQL
-  2021 **Store Management System (SMaS)**
High quality SMaS, Built using VB.Net and SQL
-  2023 **Face Recognition System (FRS)**
High quality FRS, Built using VB.Net and SQL
-  2024 **Teaching Methods Management System (TMMS)**
High quality TMMS, Built using VB.Net and SQL



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PROGRAMING SKILLS

- Web Design (HTML, CSS, ASP. Net)
- Database Design (SQL, MySQL, Access)
- GUI Design (VB.net, C#, MATLAB)
- Artificial Intelligence (Prolog, Python)
- Data Mining (Weka, Python)
- Image Processing (MATLAB, Python)
- Machine Learning (MATLAB, Python)
- Deep Learning (MATLAB, Python)

AWARDS AND ACKNOWLEDGEMENTS

- 2017 **TRINING COURSE**
In : Starting Out With Programing Language Using Python
From : University of Kufa - ITRDC
- 2018 **Introduction to Programming with MATLAB**
by Vanderbilt University / Coursera
- 2018 **Introduction to Data Science in Python**
by University of Michigan / Coursera
- 2019 **Applied Plotting, Charting & Data Representation in Python**
by University of Michigan / Coursera
- 2019 **Applied Machine Learning in Python**
by University of Michigan / Coursera
- 2019 **Applied Text Mining in Python**
by University of Michigan / Coursera
- 2019 **Applied Social Network Analysis in Python**
by University of Michigan / Coursera
- 2019 **Grammar and Punctuation**
by University of California, Irvine / Coursera
- 2020 **Technical Support Fundamentals**
by Google / Coursera
- 2020 **Iraq E-Learning Professional Training Program (TOT)**
by IREX, Iraq Ministry of Higher Education and Scientific Research
- 2021 **Image and Video Processing: From Mars To Hollywood**
by Duke University / Coursera
- 2022 **Image Processing Onramp**
by MathWorks
- 2022 **Machine Learning Onramp**
by MathWorks
- 2023 **Computer Vision Onramp**
by MathWorks
- 2023 **LIBRARY SKILLS**
Universiti Teknologi Malaysia
- 2023 **Deep Learning Onramp**
by MathWorks
- 2024 **Trainer of Trainers Program (TOT)**
by Al-Furat Al-Awsat Technical University



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Iraq, Kufa

HOBBIES

Reading

Writing

Programming

Lectures (T = Theoretical) / (P = Practical)

Technical Institute of Najaf – Department of Computer Systems Techniques.

2016 – 2018 / Systems Analysis – T / P

Technical College of Management / Kufa – Business Management Department.

2015 – 2018 / Application Packages 3 – P

Technical College of Management / Kufa – Department of Information Technology.

2018 – 2019 / C++ Programming – P

2018 – 2019 / MATLAB Programing – P

2019 – 2020 / Application Packages II – T / P

2019 – 2022 / Visual Programming – T / P

2020 – 2022 / Digital Image Processing – T / P

Technical Institute of Najaf – Department of Computer Systems Techniques.

2022 – 2023 / Visual Programming – P

2022 – 2023 / Database – T / P

2023 – 2024 / C++ - T / P

2024 – 2025 / Database – T / P

2024 – 2025 / C++ - T / P



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Iraq, Kufa

Areas of Interest

Digital Signal Processing
Digital Image Processing
Artificial intelligence
Feature Extraction
Machine Learning
Feature Selection
Medical Imaging
Deep Learning
Segmentation
Classification
Computing
IoT

Publications

Integrating the kernel method to autonomous learning multi-model systems for online data
2018 Conference: IEEE International Conference on Artificial Intelligence and Data Processing
At: Malatya, Turkey

A novel hybrid feature extraction method using LTP, TFCM, and GLCM
2021 Journal of Physics Conference Series 1892(1):012018

Digital filters windowing for data transmission enhancement in communication channel
2021 Indonesian Journal of Electrical Engineering and Computer Science

Soft Edge Detection by Mamdani Fuzzy Inference of Color Image
2022 5th International Conference on Engineering Technology and its Applications (IICETA)

Histogram Features Extraction for Edge Detection Approach
2022 5th International Conference on Engineering Technology and its Applications (IICETA)

A novel medical image enhancement technique based on hybrid method
2023 Journal of Physics: Conference Series

Acute lymphoblastic leukemia image segmentation based on modified HSV model
2023 Journal of Physics: Conference Series

Detection of COVID-19 in X-Rays by Convolutional Neural Networks
2023 Iraqi Journal of Science

Leukemia Classification using a Convolutional Neural Network of AML Images
2023 Malaysian Journal of Fundamental and Applied Sciences

Coronavirus Classification based on Enhanced X-ray Images and Deep Learning
2023 Malaysian Journal of Fundamental and Applied Sciences

Melanoma Skin Cancer Classification based on CNN Deep Learning Algorithms
2023 Malaysian Journal of Fundamental and Applied Sciences

Classification of COVID-19 from X-ray Images using GLCM Features and Machine Learning
2023 Malaysian Journal of Fundamental and Applied Sciences

Design a Crime Detection System based Fog Computing and IoT
2023 Malaysian Journal of Fundamental and Applied Sciences

Eye Diseases Classification Based on Hybrid Feature Extraction Methods
2023 6th International Conference on Engineering Technology and its Applications 2023

Image Enhancement Using HSV Color Space, DWT, and BiHE Techniques
2023 6th International Conference on Engineering Technology and its Applications 2023

Retinal Blood Vessel Segmentation Based on the Gabor filter and Optimized Top-Hat Morphology
2023 4th International Scientific Conference of Alkafeel University (ISCKU2022)

Early Diagnose Alzheimer's Disease by Convolution Neural Network-based Histogram Features Extracting and Canny Edge – 2024 Baghdad Science Journal

Secure Image Encryption Using E-Fractal-based Non-Commutative Group and Hash Function
2024 Bio, Web of Conferences

Localizing the thickness of cortical regions to descriptor the vital factors for Alzheimer's disease using UNet deep learning – 2024 Bio, Web of Conferences



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Areas of Interest

Digital Signal Processing
Digital Image Processing
Artificial intelligence
Feature Extraction
Machine Learning
Feature Selection
Medical Imaging
Deep Learning
Segmentation
Classification
Computing
IoT

Publications

Diagnosing Alzheimer's Disease Severity: A Comparative Study of Deep Learning Algorithms
2024 Bio, Web of Conferences

A Developed Polar Coded Generalized Frequency Division Multiplexing Based on Bit-Interleaved Coded Modulation -2024 AI-Furat Journal of Innovations in Electronics and Computer Engineering

Ant Colony Optimization Based Edge Detection Algorithm
2024 AI-Furat Journal of Innovations in Electronics and Computer Engineering

A Novel Color Feature for the Improvement of Pigment Spot Extraction in Iris Images
2025 Journal of Image and Graphics

Acute Lymphoblastic Leukemia Classification Using Modified VGG16 Architecture
2025 Iraqi Journal of Science

Integrating Multi-Scale Feature Extraction into EfficientNet for Acute Lymphoblastic Leukemia Classification - 2025 Journal of Image and Graphics

A Lightweight UNet-based Network for Skin Lesion Segmentation
2025 Iraqi Journal for Computer Science and Mathematics

Analysis of ERIC-PCR Electrophoresis Images of Multidrug Resistant Pseudomonas Aeruginosa Using MATLAB - 2025 6th International Scientific Conference of Alkafeel University (ISCKU2025)

Multi Deep Fusion Model for Alzheimer Classification by Transfer Learning and VGG16
2025 6th International Scientific Conference of Alkafeel University (ISCKU2025)

Enhancing Medical Image Contrast with Non-Uniform Gamma Correction Guided by Local Illumination - 6th International Scientific Conference of Alkafeel University (ISCKU2025)

A Fusion of U-Net and VGG16 Model for Alzheimer Segmentation of Hippocampal Region
2025 International Journal of Robotics and Control Systems

Enhanced Forgery Detection and Object Localization in Images Using SVD and SURF
2025 Journal of Robotics and Control

Integrating Spatial Pyramid Pooling for Multi-Scale Brain Tumor Classification in Deep Learning
2025 Journal of Image and Graphics