

Biography

Marwa Mawfaq Mohamedsheet Al-Hatab is a dedicated academic and researcher from Ninawa, Iraq, specializing in **Medical Instrumentation Engineering** and **Biomedical Engineering**. With a strong foundation in medical image processing, **artificial intelligence (AI)**, and **deep learning**, Marwa has made significant contributions to the fields of **brain imaging** and **neurodegenerative disease detection**.

She completed her **Bachelor's Degree** in **Medical Instrumentation Engineering** at **Northern Technical University** in Mosul, Iraq, and pursued her **Master's Degree** in **Biomedical Engineering** at **Università Politecnica delle Marche (UNIVPM)** in Italy. During her academic journey, Marwa earned several scholarships and participated in cutting-edge research related to **fMRI**, **EEG**, and **cardiac signal analysis**.

Currently, Marwa is a faculty member at **Northern Technical University**, where she teaches **image processing**, **signal processing**, and **advanced medical device technologies**. She has contributed to curriculum development for the **Medical Devices Engineering Department** and has been actively involved in research and training in areas such as **healthcare monitoring**, **AI-based diagnostics**, and **medical device innovation**.

Her work has been published in leading journals, with a focus on using **AI** and **machine learning** techniques for **medical imaging** and **biomedical signal analysis**. Marwa's current research is primarily focused on advancing **AI-driven diagnostic systems** and exploring innovative solutions for **early disease detection** using **medical imaging**.

Marwa is an enthusiastic member of various scientific committees and international conferences, contributing to the global exchange of knowledge in **medical engineering** and **AI** applications in healthcare. She is committed to applying her expertise to improve healthcare systems and contribute to the development of innovative diagnostic tools.