



**IEEE 4th International Conference on Computing and Machine  
Intelligence**  
**April 05-06, 2025**  
**Central Michigan University**

# **CERTIFICATE**

## **of Participation**

**This certificate is presented to**  
**Muhannad Jawad Ali Akbar**

**For participating and presenting the**  
**paper titled:**

**AI Analysis of Arabic Calligraphy Characteristics in**  
**Digital Advertisements**

A handwritten signature in blue ink, appearing to be "Ak".

**General Chair**  
**Ahmed Abdelgawad, PhD**