



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

CERTIFICATE

of Participation

This certificate is presented to
Laith Jumma

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

**The Impact of Data Augmentation on Deepfake
Detection: A Comparative Study of CNN and
Transformer Models**

A handwritten signature in blue ink, appearing to read "Ah".

General Chair
Ahmed Abdelgawad, PhD