



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

CERTIFICATE

of Participation

This certificate is presented to
Fahmi Khalifa

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

**Comparative Analysis of Fine-tuned Multimodal
Models in Radiology Image Captioning**

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

General Chair
Ahmed Abdelgawad, PhD