



IEEE 4th International Conference on Computing and Machine  
Intelligence  
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Central Michigan University

# CERTIFICATE of Participation

**This certificate is presented to**  
**Abadal Salam Hussain**

**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**