



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

# CERTIFICATE

## of Participation

**This certificate is presented to**  
**Vinay Kumar Kasula**

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

**Fraudulent Credit Card Transaction Monitoring  
Using Deep Learning: A CNN-LSTM Approach for  
Single-Transaction Security Identification**

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

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