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Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
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**IEEE**  
MADRAS SECTION

Department of Computer Science and Engineering  
School of Computing

IEEE International Conference on  
**Electronic Systems and Intelligent Computing**  
**ICESIC-2024**



**CERTIFICATE**

This is to certify that Dr/Mr/Ms **SHUBHAM KUMAR**  
from **SRM INSTITUTE OF SCIENCE AND TECHNOLOGY** has presented / participated his / her research  
paper titled **REAL-TIME DRIVER ALERTNESS MONITORING WITH OPTIMIZED DEEP LEARNING AND HAAR-CASCADE METHODS**  
in the “**IEEE International Conference on Electronic Systems and Intelligent Computing (ICESIC -2024)**”  
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**Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, India - 600062.**

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