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## Certificate

*It is here by certified that the paper ID : IJRASET58491, entitled  
Artificial Neural Networks for Long-Bone Fracture Detection Based on X-Ray Image  
Contour Features*

*by  
Ganesh Aravind Harkude*

*after review is found suitable and has been published in  
Volume 12, Issue II, February 2024  
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*Good luck for your future endeavors*

*By [Signature]*

Editor in Chief, IJRASET