



ISSN No. : 2321-9653

# IJRASET

**International Journal for Research in Applied  
Science & Engineering Technology**

IJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : [www.ijraset.com](http://www.ijraset.com), E-mail : [ijraset@gmail.com](mailto:ijraset@gmail.com)

ISRA  
JIF

ISRA Journal Impact  
Factor: 7.429



45.98  
INDEX COPERNICUS



THOMSON REUTERS  
Researcher ID: N-9581-2016



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## Certificate

*It is here by certified that the paper ID : IJRASET62669, entitled*  
*Dynamic Gradient Scaling: A Fine-Grained Approach to Optimizing Large Language*  
*Models in Deep Learning*  
*by*  
*Logan Mann*

*after review is found suitable and has been published in*  
*Volume 12, Issue V, May 2024*  
*in*

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