Detection and Spectral Analysis of Convection-Triggered Gravity Waves Using Ground-Based LIDAR Remote Sensing

8 – Week Report

PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE **SUMMER RESEARCH FELLOWSHIP PROGRAMME - 2025** ORGANISED BY **INDIAN ACADEMY OF SCIENCES, INDIAN NATIONAL SCIENCE ACADEMY & NASI**

PROJECT WORK

SRFP – 2025

Submitted by

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SRFP Reg. No: ENGS1672

Department of Computer Science and Engineering

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Under the Guidance of

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An Autonomous Institution under Department of Space

Government of India

DECLARATION

I,

SUDHAN R – ENGS1672

Declare that the project entitled **DETECTION AND SPECTRAL ANALYSIS OF CONVECTION-TRIGGERED GRAVITY WAVES USING GROUND-BASED LIDAR REMOTE SENSING**, submitted in partial fulfilment to the requirements for **The Summer Research Fellowship Programme – 2025**, is a record of original work done by us under the supervision and guidance of **Dr. Bhavani Kumar Yellapragada, MSc, Ph.D.,** Retired Scientist, Department of Space, **National Atmospheric Research Laboratory (NARL), An Autonomous Institution under Department of Space, Government of India, Gadanki – 517112, Andhra Pradesh, India**

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Place: Tirupati
Date: ……

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Project Guided by

Dr. Bhavani Kumar Yellapragada, MSc, Ph.D.,

ACKNOWLEDGEMENT

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