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| **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** |
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| |  | | --- | | **PROJECT**  **WORK** | | | Submitted by  **Mr. Sudhan R**  **SRFP Reg. No: ENGS1672**  **Department of Computer Science and Engineering**  Sri Eshwar College of Engineering (Autonomous) Affiliated to Anna University |
| **SRFP – 2025** | |  |
| Under the Guidance of  **Dr. Bhavani Kumar Yellapragada, MSc, Ph.D.,**  **Retired Scientist, Department of Space,**  **National Atmospheric Research Laboratory (NARL)** | | |
| National Atmospheric Research Laboratory | LinkedIn | **NATIONAL ATMOSPHERIC RESEARCH LABORATORY (NARL)**  Gadanki – 517112, Andhra Pradesh, India  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 tothe 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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| **[SUDHAN R] – ENGS1672** |

Project Guided by

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

**ACKNOWLEDGEMENT**

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The successful completion of this research project would not have been possible without the guidance, support, and encouragement of many individuals and institutions. I take this opportunity to express my sincere gratitude to all those who contributed to the accomplishment of this work during the Summer Research Fellowship Programme (SRFP) 2025.

First and foremost, I express my heartfelt thanks to the **Indian Academy of Sciences**, **Indian National Science Academy (INSA)**, and **The National Academy of Sciences, India (NASI)** for granting me this valuable opportunity to participate in the prestigious SRFP and carry out research at a premier scientific institution.

I would like to convey my deepest gratitude to **Dr. Bhavani Kumar Yellapragada, MSc, Ph.D.,** Retired Scientist and my research guide at the **National Atmospheric Research Laboratory (NARL)**, Department of Space, Government of India, for his constant guidance, support, and encouragement throughout the project. His valuable insights, expertise, and motivation played a pivotal role in shaping this research and expanding my knowledge in the domain of atmospheric sciences and remote sensing.

My sincere thanks to the entire team of **National Atmospheric Research Laboratory (NARL)**, including the research staff and technical experts, for providing the necessary facilities, infrastructure, and a research-conducive environment that enriched my learning and helped me apply computational approaches in real-time data analysis.

I am also thankful to my institution, **Sri Eshwar College of Engineering**, and the **Department of Computer Science and Engineering** for supporting my participation in this fellowship and encouraging my academic pursuits beyond the curriculum.

Last but not least, I extend my warm gratitude to my family, friends, and well-wishers for their continuous encouragement, emotional support, and belief in my capabilities throughout this journey.

This project has been a transformative learning experience, and I remain deeply indebted to everyone who contributed directly or indirectly towards its successful completion.