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To whomsoever it may concern

This is to certify that **Mr. Aditya Santosh Siras** completed his internship under my supervision at the National Remote Sensing Centre, ISRO, Hyderabad, for the period from 6 February 2025 to 2 April 2025.

During his internship, Aditya developed "**Bhuvan GeoIntel: Context Aware Geospatial Extraction and Document Analysis.**" He demonstrated exceptional technical competence by architecting a secure, privacy-preserving system for geospatial intelligence. His work involved implementing advanced Natural Language Processing and geocoding techniques to extract coordinates from unstructured text, building a local Retrieval-Augmented Generation (RAG) pipeline for confidential document querying, and developing a comprehensive full-stack web interface with OCR capabilities and interactive map visualizations.

Research Publication: His work culminated in the paper "**An Integrated Framework for Geospatial Content Extraction and Semantic Summarization from PDF Documents,**" accepted for **presentation and publication** at the **2025 IEEE India Geoscience and Remote Sensing Symposium.** This achievement highlights his ability to conduct professional-level research.

Aditya possesses robust skills in Python, Artificial Intelligence, Machine Learning, and Full-Stack Development. He displayed **analytical thinking**, a **self-driven attitude** in mastering vector databases, and strong **communication skills**.

Aditya is fully prepared for professional challenges. Given his strong fundamentals, practical experience, and research success, I **unequivocally recommend him for the highest positions in Software Development, Artificial Intelligence, Machine Learning, and Research.** I also strongly **endorse his candidature for higher studies.**

Best regards,

N. Naresh
Mr. Naresh Nagamalle

Scientist / Engineer - 'SF'

BCGG/BG&WSA

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