



IIT Guwahati

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### TO WHOM IT MAY CONCERN

This is to certify that **Mr. Suryaganesh K** (Roll No. 225003206, Bachelor of Technology in Computer science and Engineering, Srinivasa Ramanujan Centre, SASTRA Deemed to be University, Kumbakonam) has worked under my supervision for his summer internship project during the period **23/05/2024 – 23/07/2024**. He has worked on the following topics:

- a) Collection of "**Underwater Dataset**" with two classes (Artifacts, Shark) each of these categories contain 500 images.
- b) Rendering annotation work for collected dataset utilizing the LabelImg (open source annotation tool).
- c) Implemented **YOLOv9** for underwater object detection.

These were implemented in Python. He has successfully completed his internship project.

Dr. Prithwijit Guha  
Internship Supervisor  
09/08/2024