**UNDERWATER IMAGE ENHANCEMENT AND RESTORATION USING AI & ML**

Submitted in partial fulfilment of the requirements

of the degree of

**Bachelor of Engineering**

By

**Ms. APARNA PADMAKUMAR ARMIET/IT19 AP 02**

Under the Guidance of

**DR. SANTOSH KUMAR DWIVEDI**

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**ALAMURI RATNAMALA INSTITUTE OF ENGINEERING**

**AND TECHNOLOGY**

**Affiliated to**

**UNIVERSITY OF MUMBAI**



**Department of Information Technology**

**Academic Year – 2022-2023**

**CERTIFICATE**

This project report entitled **“Underwater Image Enhancement and Restoration using AI & ML”** by **Ms. Aparna Padmakumar** is approved for the degree of **Bachelor of Engineering in Information Technology** for academic year 2022 - 2023.

**Examiners**

**1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Supervisor**

1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Dr. Santosh Kumar Dwivedi**

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**Head of the Department Principal**

**Date:**

**Place:**

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I declare that this written submission represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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**ACKNOWLEDGEMENT**

In our project we are extremely thankful to our project guide **Dr. Santosh Kumar Dwivedi** for his valuable support and time.

We would like to take this opportunity to acknowledgement the innumerable guidance and support extended to us by our co-guide in preparation of the synopsis.

We also want to thank our honourable principal for his support. Our foremost thanks go to my well-wishers and colleagues.

We are graceful to all staff members, non-teaching staff and all our friends us the helping hand.