

## Certificate of Completion

This is to certify that **Outhouse Project** titled "Design and Development of intelligent early-stage pest detection using edge Computing" has been successfully completed by **Mr. Hardik Manoj Chemburkar, Ms. Sakshi Vijay Lathi & Ms. Muskan Prakash Rana** within duration **7<sup>th</sup> January, 2023 to 31<sup>st</sup> March, 2024** for **HydroTekFarm LLC** under the guidance of Industry Mentor **Mr. Sakaray Lakshman Rao** and Project Mentor **Ms. Sampada Bhonde**.


The outhouse project was completed in accordance with the terms and conditions of the agreement between **HydroTekFarm LLC** and **Mr. Hardik Manoj Chemburkar, Ms. Sakshi Vijay Lathi & Ms. Muskan Prakash Rana**

The scope of work included to create an automated system for monitoring and managing hydroponic plant growth in controlled environments. The system should facilitate real-time data collection from Hydroponic plants. The frontend should offer features for monitoring plant health, receiving recommendations, and manually adjusting system parameters.

Also, implement a robust backend using Flask and Python for processing thermal images, making recommendations, and controlling the hydroponic system. Integrate this backend with a user-friendly frontend developed using the Ionic framework with Angular. **Technologies Used:** Flask, Python, HTML, CSS, Angular.

This certificate of completion is awarded to **Mr. Hardik Manoj Chemburkar, Ms. Sakshi Vijay Lathi & Ms. Muskan Prakash Rana** as a token of appreciation for the dedication, hard work and commitment put in by the team in completing the project within the specified duration.

We wish **Mr. Hardik Manoj Chemburkar, Ms. Sakshi Vijay Lathi & Ms. Muskan Prakash Rana** all the best in their future endeavours.

Authorized Signature:   
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**Name of Authorized Signatory**

S. P. Lakshman

**Designation**

Director of Development & Quality Assurance

**Date of Issuance**

25.04.2024