

Activity Report (news bulletin) of IT Dept. for Dec 2023

1. Expert Lecture/Seminar/Courses Organized by Department during Dec 2023: **NIL**
2. Papers Presented/Published in the Journal by Staff during Dec 2023:

Title of Paper: Review on detection and prediction of crop disease and pest using machine learning

Name of Journal: Heritage Research Journal

Volume and Issue : Volume 71 – Issue 12 – 2023

ISSN No.: 0474-9030

Names of Authors: Prof. Poonam L Patil, Prof. Smita N Chaudhri and Prof. Nagama S. Kazzi

Abstract: - Considering the latest rate of population expansion, it is anticipated that by the decade 2050, global crop productivity will need to double. Although crop diseases pose serious risks to food security, it is still stimulating to promptly diagnose them due to a lack of infrastructure in many parts of the world. It is critical to develop operative techniques for the automatic detection, identification, and prediction of diseases in agricultural crops because these methods can be used to gain the knowledge of crop diseases. This survey presents a literature on various ML techniques used in agriculture area, by encouraging the development of methods that will enable farmers to reduce their use of pesticides and chemicals while conserving and increasing their crop quality and productivity. This survey intends to aid in the advancement of precision farming and smart farming.

Keywords: Plant diseases and pests, classification, detection, machine learning

3. Papers Presented by Students during Dec 2023: **NIL**
4. Industrial Training/Workshop done by Staff during Dec 2023:
Prof. Yogita Khairnar completion in our 5 days online STTP approved by ISTE on “Advanced Tools, Emerging Trends and Techniques for Research Methodology” organized by Department of Information Technology, SKNSITS, Lonavala, Pune in association with IIC, SKNSITS held in online mode from 27th November to 1st December 2023.

Prof. Rupali Bora had participated as “Advisory Committee member” for the 3rd International Conference on Information and Communication in Business, Industry, and Government (ICTBIG-23) in collaboration with UNESCO at Symbiosis University, Indore.
5. Industrial Visit organized by department for student during Dec 2023: **NIL**
6. Training and Placement Cell during Dec 2023: **NIL**
7. Books Purchased in Central Library during Dec 2023: **NIL**
8. Forthcoming event in the month January and February 2024:-
9. Achievements:

HOD, IT