HPC Project Details

Kindly fill the details of your project and team members.

...

Hi, SAKSHAM. When you submit this form, the owner will see your name and email address.

* Required

1. Project Title *

Weed plant detection from agricultural field images

2. Project Summary (200 words) *

Weed plant detection is a new study challenge in agricultural areas that wish to take support from computational science to identify undesirable development of weeds in conjunction with other crops or plants. In farming, when farmers grow anything due to soil properties and pre-existing micro seeds, extra growth of weeds is unavoidable, which diminishes the true value of farming by impeding the development of planted plants. So weed identification is the challenge of precisely identifying the area of weeds so that regions may be targeted for spraying with the least amount of spraying on other plants of interest. In recent years, as the global population has increased, available land and natural resources have diminished. Precision agriculture is gradually catching the attention of academics. Image processing technologies might be employed to fix this issue. Literature claims that weed identification techniques may be based on location and edge characteristics. The weeds that are under target can be readily, quickly, and correctly isolated from the surroundings. In this approach, we may address several technological challenges linked to specific pesticides and, in agriculture, automotive navigation systems. Usually, the weed picture has three aspects: soil, crops, and weeds. Therefore, the weed identification technique that the literature presents is separated into three parts: soil background segmentation, crop removal, and weed extraction.

3. Project Member (Leader)-Name & Batch *

Pranjal Bhardwaj EB09

4. Project Member (Leader)-Enroll. No. *

E19CSE432

5. Project Member (Leader)-Mail-ID. *

e19cse432@bennett.edu.in

6. Project Member-2 -Name & Batch

Sadhil Chhabra EB09

7. Project Member-2 -Enrollment No.

E19CSE299

8. Project Member-2 -Mail ID

e19cse299@bennett.edu.in

9. Project Member-3 -Name & Batch

Atindra Shekhar EB09

10. Project Member-3 -Enrollment No.

E19CSE187

11. Project Member-3 Mail ID

e19cse187@bennett.edu.in

12. Project Member-4 -Name & Batch

Saksham Khandelwal EB02

13. Project Member-4 Enrollment No.

E19CSE216

14. Project Member-4 Mail ID

e19cse216@bennett.edu.in

15. Project Member-5 Name & Batch

Enter your answer

16. Project Member-5 Enrollment No.

Enter your answer

17. Project Member-5 Mail ID

Enter your answer

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