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| **IDEATION PHASE**  **LITERATURE SURVEY**   |  |  | | --- | --- | | DATE | 4 October 2022 | | TEAM ID | PNT2022TMID43524 | | PROJECT NAME | Fertilizer Recommendation System For Plant Disease Prediction |       **Literature Survey:**     |  |  |  |  |  | | --- | --- | --- | --- | --- | | **S.No** | **Title & Author** | **Year** | **Technique** | **Proposed System** | | 1 | Crop Prediction and Disease Detection System  - [Sambhav](https://ieeexplore.ieee.org/author/37089454107)  [Bhansali,](https://ieeexplore.ieee.org/author/37089454107) [Punit](https://ieeexplore.ieee.org/author/37089455432)  [Shah,](https://ieeexplore.ieee.org/author/37089455432) [Jinay](https://ieeexplore.ieee.org/author/37089457680)  [Shah,](https://ieeexplore.ieee.org/author/37089457680) [Priyal Vyas,](https://ieeexplore.ieee.org/author/37089454712)  [Poonam Thakre](https://ieeexplore.ieee.org/author/37089453972) | 2022 | Support  Vector  Machine  (SVM) or  Neural  Networks. | Basis on the crop and region of farming we will  recommend the fertilizer  and its uses to boost the yield productivity for  farmers. Sometimes due to  unwanted excess of rainfall or the pest attack can cause disease to crops. We will  use the image classification technique where the user  can upload the picture of the affected plant/crop and the system will figure out the  type of disease which will be done using Support  Vector Machine (SVM) or using the neural network  techniques. And this disease detection will suggest that  how that plant/crop can be cure or prevent. | | 2 | Fertilizers  Recommendation  System For  Disease Prediction  In Tree Leave - R.Neela, P.Nithya | 2020 | Graph cut Algorithm | Many people lead their life from agriculture field, which gives fully related to agricultural products. Plant disease, especially on leaves, is one of the major | |

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  | factors of reductions in both quality and quantity of the food crops. In agricultural aspects, if the plant is affected by leaf disease then it reduces the growth of the agricultural level. Finding the leaf disease is an important role of agriculture preservation. After pre- processing using a median filter, segmentation is done by Guided Active Contour method and finally, the leaf disease is identified by using Support Vector Machine. The disease-based similarity measure is used  for fertilizer recommendation. | | 3 | Soil based  fertilizer  Recommendation system for crop disease prediction – Dr.P.Pandiselvi,  P.Poornima | 2021 | Long or  Short term memory algorithm. | The proposed system was able to analyse the soil nutrient type efficiently, kind of leaf disease present in the crop and predict the  fertilizer in a proficient manner. The approach was flexible, and can be extended to the needs of the users in a better manner. |       **References:** <https://ieeexplore.ieee.org/document/9825446>  [http://www.ijstr.org/final-print/nov2019/Fertilizers-Recommendation-System- For-Disease-Prediction-In-Tree-Leave.pdf](http://www.ijstr.org/final-print/nov2019/Fertilizers-Recommendation-System-For-Disease-Prediction-In-Tree-Leave.pdf)  [https://www.semanticscholar.org/paper/Soil-Based-Fertilizer-Recommendation- System-for-Selvi-Poornima/b1541806e8d0ffb21386a1b570ad0cd6b5ff0435](https://www.semanticscholar.org/paper/Soil-Based-Fertilizer-Recommendation-System-for-Selvi-Poornima/b1541806e8d0ffb21386a1b570ad0cd6b5ff0435) |