Shape

Description automatically generated with medium confidenceLogo, icon

Description automatically generatedA picture containing diagram

Description automatically generated

|  |  |
| --- | --- |
| **Team Name** | **Krshak Saathee** |
| **Domain Name** | Web Development and Machine Learning |
| **Problem Statement** | Predicting the crop demand and yield based on soil compatibility, rainfall using Machine Learning. |

|  |  |  |  |
| --- | --- | --- | --- |
| **[Team Member Details** | | | |
| S. No. | Name | Phone Number | Mail Id |
| 1 | M. Harikesh | 9441353600 | [20071A6629@vnrvjiet.in](mailto:20071A6629@vnrvjiet.in) |
| 2 | G. Hemanth Verma | 7093389229 | [20071A6613@vnrvjiet.in](mailto:20071A6613@vnrvjiet.in) |
| 3 | M. Sai Ritish Reddy | 7993199469 | [20071A6626@vnrvjiet.in](mailto:20071A6626@vnrvjiet.in) |
| 4 | K. Santhosh Kumar | 9133278716 | [20071A6620@vnrvjiet.in](mailto:20071A6620@vnrvjiet.in) |

|  |
| --- |
| **Abstract** |
| In the past few decades, there has been a regular and common issue for the world wherein no farmer is able to get a fair price for his crop. Sometimes, the traditional agricultural practices can cause high production of the same crop variety, which leads to supply of the crop becoming higher than the demand. In case the above-described effect occurs in a particular crop year, majority of the farmers do not wish to cultivate the same crop in the future. This causes a severe shortage of the product and often leads to the sudden spike in their prices.  The root cause for these events is the agricultural communication imbalance, which has been occurring since many years and still persists.  In case, if it’s possible to predict the yield of a crop based on the previous trends, it will be extremely helpful to estimate the farmer’s profits.  So, we have chosen this problem statement to solve the two problems mentioned above, for a hope of a good progressive future of agriculture. |
| |  | | --- | | **Suggested Solution:** | | Our Aim is to make an interface that transmits the whole data regarding the crop production from  time to time and cautions the farmers regarding the production of the crop, to be in good relation with future demands. The ML model we develop will predict the future demand of a crop based on previous data. With the present year cultivation inputs given by the farmers, it gives a statistical report to ensure the production should be in relationship with the predicted demand.  With the given data of a farmer’s locality and crop he has chosen to cultivate, our ML model will predict the crop yield and expected price based on previous data (Rainfall, yield statistics). | |