

# Fertilizer Recommendation System for Plant Disease Prediction

## PROBLEM STATEMENT

### Customers View

Person A owns his own farmland and is engaged in agriculture, while Person B grows crops at home. They Both faced a problem in Choosing Fertilizers and Controlling of Plant Disease.

- They want to know the best fertilizer recommendations for plants with the disease.
- Farmer has faced huge losses for a long time.
- This problem is usually faced by most farmers and gardeners.
- They need to know the result immediately.

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| Who does the problem affect?                 | This Problem affects the persons who do agriculture and gardeners.   |
| What is the issue?                           | Disease in crops and Plants. This disease reduces the plant's growth and productivity. Plant diseases, in general, are caused by abnormal physiological functions of plants. |
| Where does the issue occur?                  | This problem exists on farmlands as well as on homegrown Plants.   |
| Why is it important that we fix the problem? | It is important for people's healthy life. It is required for the growth of better quantity & quality food products. It is important to maximise the crop yield.             |

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| What solution to solve this issue?        | An automated system is introduced to identify different diseases on plants by checking the symptoms shown on the leaves of the plant. By simply taking a photo we can easily identify disease. |
| What methodology used to solve the issue? | Machine learning techniques are used to identify the diseases and suggest the precautions that can be taken for those diseases and also suitable fertilizer is recommended.                    |