## FERTILIZERS RECOMMENDATION SYSTEM FOR DISEASE PREDICTION

## PROBLEM STATEMENT:

Mr. Raja is a 70 years old farmer. He has an own farming land and does agriculture for the past 25 years. For 25 years, he has been facing a problem of detecting the plant diseases on plants and recommending proper fertilizers to the plants.

- ❖ Most plants are affected by a wide variety of bacterial and fungal diseases. Generally, the plant diseases are caused by the abnormal physiological functionalities of plants.
- ❖ Diseases on plants placed a major constraint on the production and a major threat to food security. Hence, early and accurate identification of plant diseases is essential to ensure high quantity and best quality. In recent years, the number of diseases on plants and the degree of harm caused has increaseddue to the variation in pathogen varieties, changes in cultivation methods, and inadequate plant protection techniques.

FOR WHOM DOES	CULTIVATORS
THEPROBLEM	
AFFECT?	

MILAT ADE THE	DEODI E WILO
WHAT ARE THE	PEOPLE WHO
BOUNDARIES OF	PRACTICE
THE	AGRICULTURE ON
PROBLEM?	LARGE
	SCALE.
WHAT IS THE ISSUE?	PLANT DISEASE,
	ESPECIALLY ON LEAVES, IS
	ONE OF THE MAJOR
	FACTORS OF REDUCTIONS IN
	BOTH QUALITY AND
	QUANTITY OFFOOD CROPS.
	➤ IN AGRICULTURAL
	ASPECTS, IF PLANTS IS
	AFFECTED BY LEAF
	DISEASE, THEN IT
	REDUCESTHE GROWTH OF
	AGRICULTURAL LEVEL.
WHEN DOES THE	DURING THE
ISSUEOCCUR?	CULTIVATIONOF
	VARIOUS CROPS ON A
	LARGESCALE, THE
	CROPSGETS AFFECTED
	BY VARIOUS
	PATHOLOGICAL
	DISEASES.
WHERE DOES THE	IN THE REGIONS OR
ISSUEOCCURING?	AREASWHERE
	AGRICULTURE IS
	PRACTICED.[
	EX.RURALAREAS]
WHY IS IT IMPORTANT	EARLY & ACCURATE
TOFIXTHE PROBLEM?	IDENTIFICATION OF
	PLANTDISEASES IS
	ESSENTIAL TO
	ENSURE HIGH
	QUALITY &
	QUANTITY OF
	CROPS.

WHAT IS THE SOLUTION	AN AUTOMATED SYSTEM IS
TOTHISPROBLEM?	INTRODUCED TO IDENTIFY
	DIFFERENT DISEASES ON
	PLANTSBY CHECKING
	THESYMPTOMS SHOWN ON
	LEAVES OF THE
	PLANTS.
WHAT	DEEP LEARNING
METHODOLGY IS	TECHNIQUES SUCH AS
USED TO SOLVE	SEGMENTATION AND
THIS PROBLEM?	FEATURE EXTRACTION ARE
	USEDTO IDENTIFY
	DISEASES AND SUGGEST
	PRECAUTIONS AND
	RECOMMEND
	APPROPRIATE FERTILIZERS
	TO PLANTS.