**PROBLEM STATEMENT**

**Domain :** Internet of Things

Smart Crop Protection System for Agriculture

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1.Agriculture is the primary source of livelihood for about 58% of India’s population. Agriculture is an important sector of Indian economy and it contributes about 17% to the GDP.

2.Agriculture also provides employment to 60% of population. But due to various climatic changes and animal intervention the farmers are facing major losses. There are many traditional methods that are being used by the farmers like scarecrows, electric fences, etc,

3. In some areas farmers uses smoke to prevent their farmland, the burn elephant dung or other materials that create heavy smoke. In some areas people also uses fish or garlic natural emulsion, castor oil to repels the animals.

4. But these are not very effective to save the farms from animals. Hence, we have designed this affordabeffectively to surveillance and to protect the farm effectively.

5.So here we propose automatic crop protection system from animals. This is a microcontroller-based system using PIC family microcontroller.

6.These systems use a motion sensor to detect wild animal approaching near the field. In such a case the sensor signal the microcontroller to take action.