DIGITAL SCARECROW Audio frame Image Captured **WORK** recorded at the by Camera after same time image **FLOW CHART** certain interval was captured Shreyanshu Shekhar - 2016CSB1060 Sahil Gupta - 2016CSB1056 It will filter out It will extract the those image Audio Input Image Input MFCC feature INTRODUCTION which does not from the input contain any audio clip animals or birds Crop loss could happen due to various reasons like insects, the VGG MFCC fertility of the soil, unavailability of water and it could also be destroyed by wild animals and birds. The very primitive solution for this problem which is still being used is the scarecrow. But it doesn't seem to be working quite well these days. We have designed a ResNet SVM digital scarecrow which identifies the animal or bird and plays the SVM is trained on It will identify, sound of their predator. which animal or MFCC features for Finally both the bird is present in different animals model will predict the farm and birds. the presence of Input: Image and audio clip Hardware: Camera and **Predicted Animal Predicted Animal** animal using their Output: Sound of the Microphone, Microprocessor and corresponding Input predator Battery, Speaker Database will Buffalo store the graph of superiority of all Cow Resolution the animals and their respective Sheep sounds Final audio output Elephant Using the output will be played to of both model, it scare the animal Leopard will try to decide Audio Output from the farm Sheep the animal and Hyena Rhinoceros which audio to Deer play Tiger Elephant Zebra Horse **OUTPUT**: Human Chimpanzee **Animal Found: Animal Found:** Cow Deer Human Lion Elephant Leopard Playing Audio: Playing Audio: Loepard Lion NA Rhinoceros Zebra Buffalo **Animal Found: Animal Found:** Zebra Cow Cow Wolf Buffalo Deer Bear Cow - Fox Playing Audio: Horse Playing Audio: Coyote Gunshot Wolf **PREDATORS**