

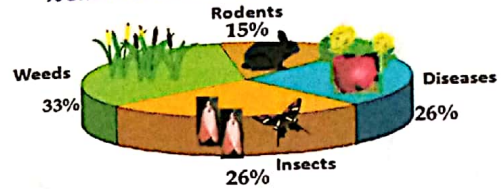
Problem Statement:

In Extensive farming, It's very difficult for farmer to go manually and check every crop. whether it have diseases or not.

so we have proposed a technique to cover that loss caused by diseases. with the help of Deep Learning.

- India is one of the largest agricultural countries in world.
- Diseases and pest keeps on spreading in field.
- which Leads to 15 -25% loss of crops. (Approx. 60,000 crores)

% Share of Losses due to Pests & Weeds



Solution:

- We propose to build a custom drone with Deep learning for predictive model against pest and diseases.
- System will identify the disease along with their locations

FINANCIAL EXPRESS

HOME BUDGET 2019 MARKETS STOCKS ECONOMY AUTO INDUSTRY MONEY INDIA INFRA OPINION

India loses 15-25 per cent potential crop output due to pests, weeds, diseases

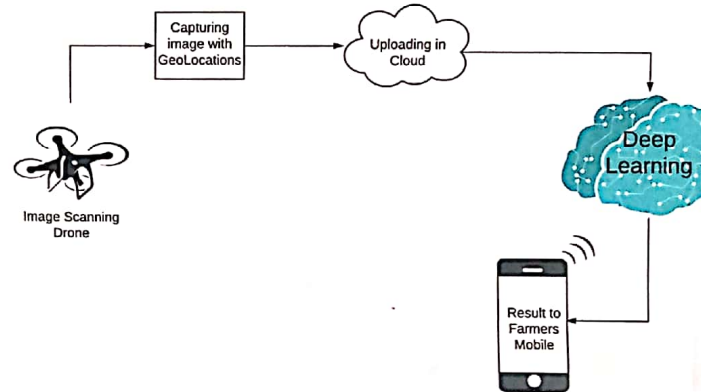
By ANI | Published July 20, 2016 12:22 PM

Chairman Standing Committee of Parliament on Agriculture and Farmers Welfare Hukimdev Narayan Yadav called for concerted efforts to forge an R and D-led strategy to save the loss of crops due to pests, weeds and diseases.

60 Tests Full body

Make some underwear

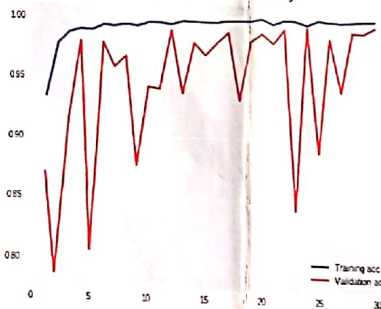
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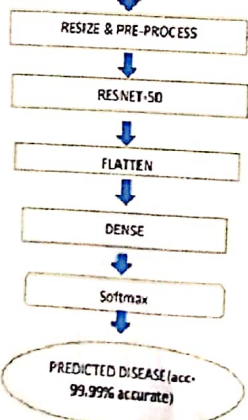
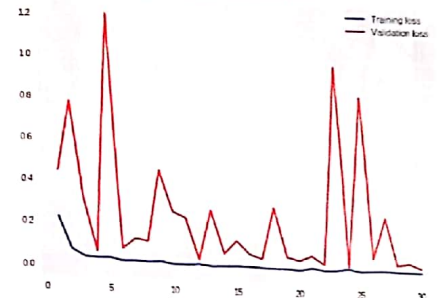
What is Deep Learning?

Deep Learning is a subfield of machine learning concerned with algorithms inspired by the structure and function of the brain called artificial neural networks.

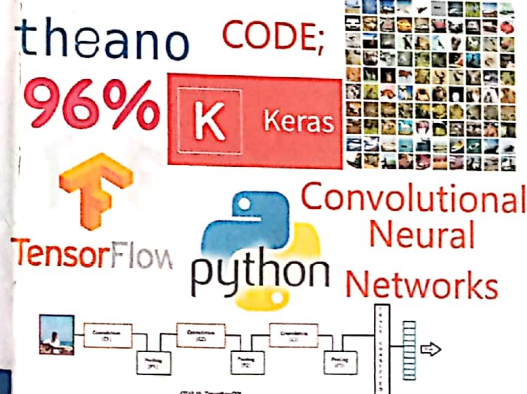
Training and Validation Accuracy



Training and Validation Loss



Technologies Used:



Achievements:

- Gold at National level Competition held at IIT BHU organised by IIT BHU & Innovians technologies.
- Consolation Prize at National level project exhibition - Modex - Organised by IIT BHU(Varanasi).