

Crop Recommendation System Farmeasay

Aayush Gupta , Akshat Singh Gour , Akshat Singh Rathore , Akshay Keswani

INTRODUCTION

Farmeasay is the machine learning system by which farmers can get recommendation for crop by just entering the soil content in the system. Farmeasay also comes with the fertilizer recommendation for the recommended crop.

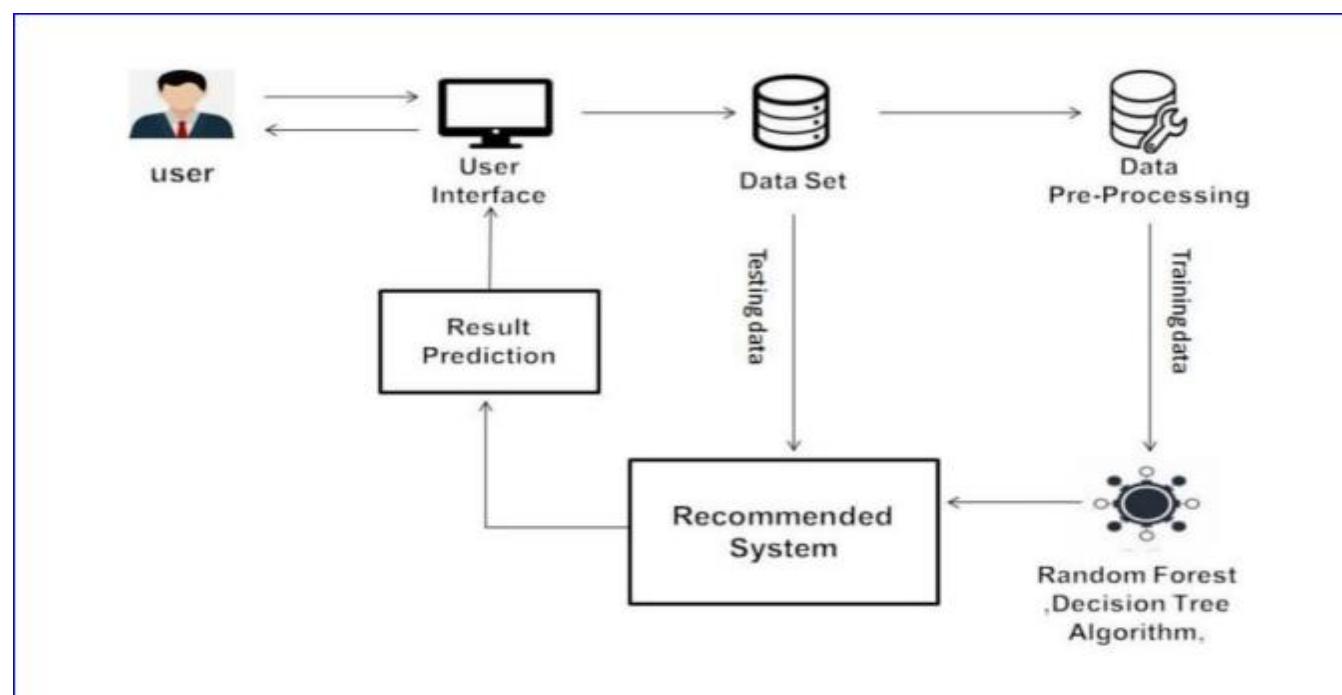
OBJECTIVE

Farmeasay's was developed with the objective of making farmers lives easy.

- To give a high crop yield.
- To obtain a better variety of crops that can be grown over the season.

ALGORITHM AND TECHNOLOGY USED

Random Forest Algorithm
 Decision Tree
 Support Vector Machine
 Logical Regression
 Python
 Flask



FARMEASY

Crop Recommendation

Nitrogen
 Enter Nitrogen

Temperature
 Enter Temperature in °C

Rainfall
 Enter Rainfall in mm

Phosphorus
 Enter Phosphorus

Humidity
 Enter Humidity in %

pH
 Enter pH value

Potassium
 Enter Potassium

Get Recommendation

Fertilizer

Crop Recommendation

Recommend Crop
Mothbeans

Select a location with very moist soil, bogs, and shallow water. Peaty soil. Cool area. Prepare the soil. Ensure the climate requirements for growing moth beans are met. Choose variety and purchase seeds. Determine the number of seeds per hectare. Plant the seeds. Regularly water the plants to maintain heavy moisture. Deadhead the plants. Once established, do not disturb unless they become overcrowded. Propagate by dividing in the spring, each division should contain one growing tip.

Fertilizer

Fertilizer Recommendation

Nitrogen
 Enter Nitrogen Value

Phosphorus
 Enter Phosphorus Value

Potassium
 Enter Potassium Value

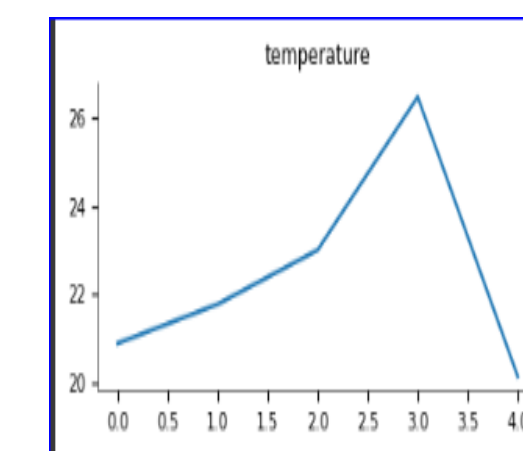
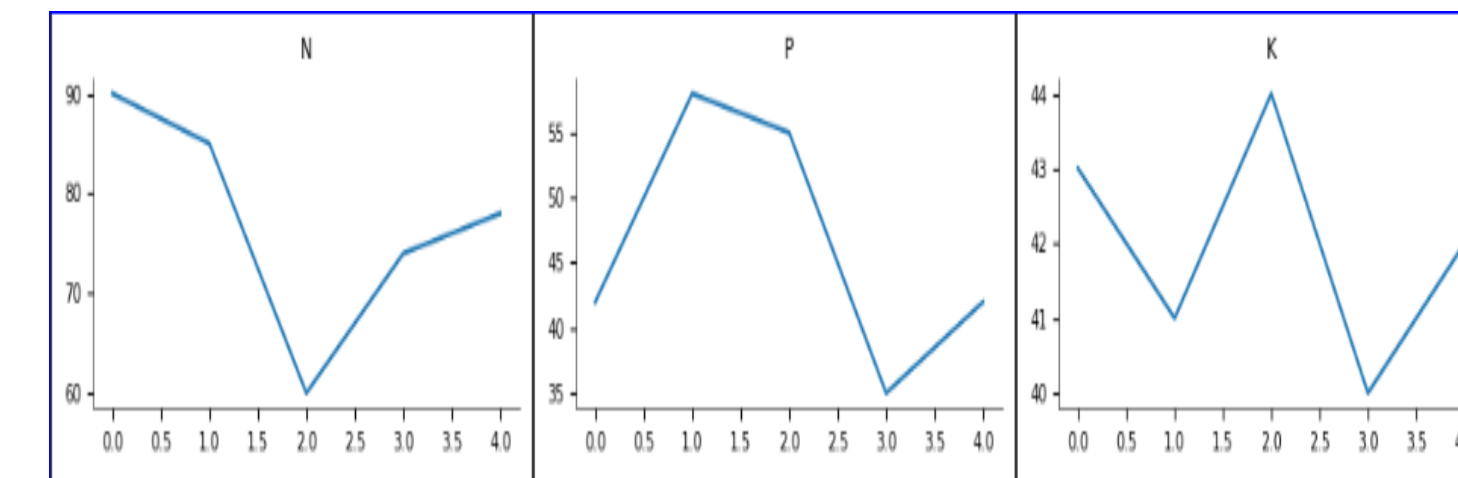
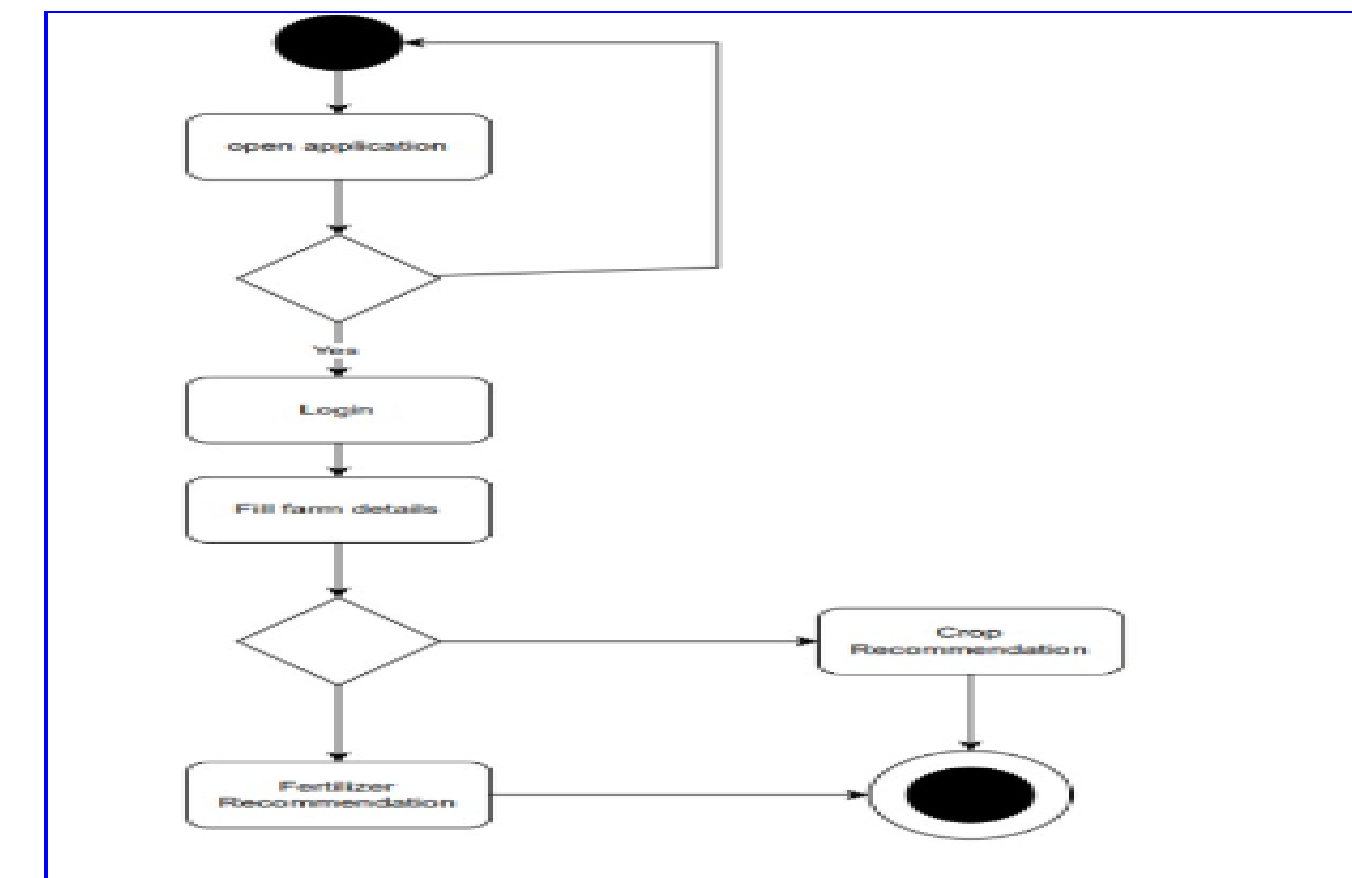
Crop you want to grow
 Select crop

Predict

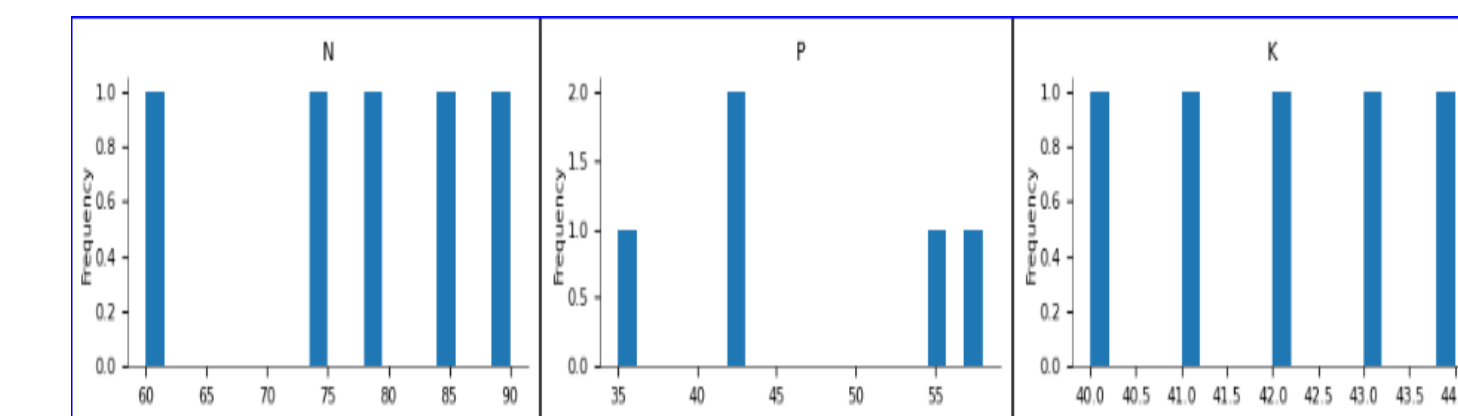
Crop Recommendation

Graphs and Figures

Farmeasay gives 99% accuracy through Random Forest Algorithm.



Accuracy comparison on the given values taken from data set



CONCLUSION

Agriculture is key to our country's economy, so even the smallest investment done in this sector has a tremendous effect. on our country altogether. Our system will provide them with a ray of hope to grow. crops, which will earn them the most profit. The quality as well as quantity of their Production will increase exponentially. It will also help them maintain nutrients. content in the soil. Both the quantity and quality will increase.

REFERENCES

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2. J. Meng, "Research on the cost of agricultural products circulation and its control under the new normal economic development," Commercial Times, no. 23, pp. 145147, 2016.

CONTACT

Aayush Gupta –
 aayushgupta20649@acropolis.in
 Akshat Singh Gour –
 akshatsingh20037@acropolis.in
 Akshat Singh Rathore –
 akshathore20505@acropolis.in
 Akshay Keswani –
 akshaykeswani20194@acropolis.in