

IBM HACK CHALLENGE 2021 PROJECT REPORT

ON

Frama (website)

**AI-Assisted Farming for Crop Recommendation & Farm
Yield Prediction Application**

BY

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1. INTRODUCTION

1.1 Overview

1.2 Purpose

2 LITERATURE SURVEY

2.1 Existing problem

2.2 Proposed solution

3 THEORITICAL ANALYSIS

3.1 Block diagram

3.2 Hardware / Software

4. EXPERIMENTAL INVESTIGATIONS

5. FLOWCHART

6. RESULT

7. ADVANTAGES & DISADVANTAGES

8. APPLICATIONS

9. CONCLUSION

10. FUTURE SCOPE

11. BIBILOGRAPHY

1.INDRODUCTION

1.1 Overview

Our idea is to create a website for agriculture. It is a website it gives full information about agriculture for farmers. It has several modules:

1. It gives a lot of suggestions like, which kind of crop is suitable for your land, based on land type, irrigation method, climate, seasons.
2. It also tells the government's provide loans, funding s, equipment and all benefits.
3. It also suggests how to add value to their products. use this method we just small improvements in their product, they can get better profit.
4. It also has a news module, it tells the latest news on agriculture.
5. It suggests seeds, fertilizer, farming equipment, and also where we buy those products.

- Project requirement: Python, Machine Learning Library s, Browser, IBM Watson studio.
- Software requirements: IBM Watson studio, Browser.
- Project deliverables: Frama (website)

- Project team: Hackoverflow
- Project Id : SPS_PRO_2003

1.2 Purpose

Farmers get confused in future which crop is getting demand. They did not have an idea where to buy the farming products at low cost. They did not have the correct idea about where they sell this product and how to increase the value of the product. So, they get a very basic profit. Especially new generation farmers.

2.LITERATURE SURVEY

2.1 Existing problem

Still, now farmers and consumers can connect directly, and intermediates get high profits. They did not have the correct idea about where they sell this product and how to increase the value of the product. So, they get a very basic profit. Especially new generation farmers.

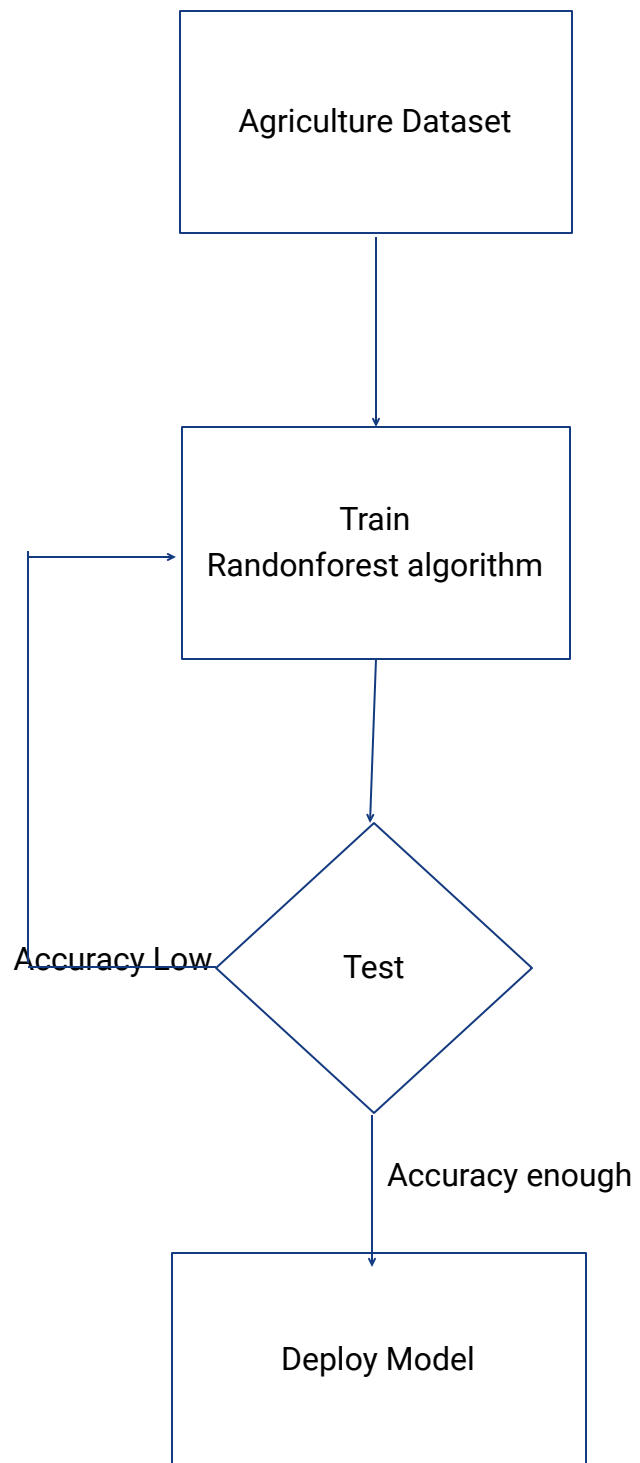
2.2 Proposed solution

It is connecting the farmer and the corporate consumer or solo consumer without Intermediary. It connects the whole nation. There is no matter where the factory locates and where the farmland locates.

For example, as a farmer, I have some products. use this app, I advertise my product use this app. The consumer who need this product, either it is corporate or a single person they can contact and buy it or as a consumer, I put my need in this app, anybody has this product approach to the consumer. Contract-based also possible in this method. For example, as a consumer, I want some product I will put what kind of product I want, and my period, and how much I want and what is my budget. The farmer, who have willing to produce the product they can approach the consumer and they put the contract.

3.THEORITICAL ANALYSIS

3.1 Block diagram



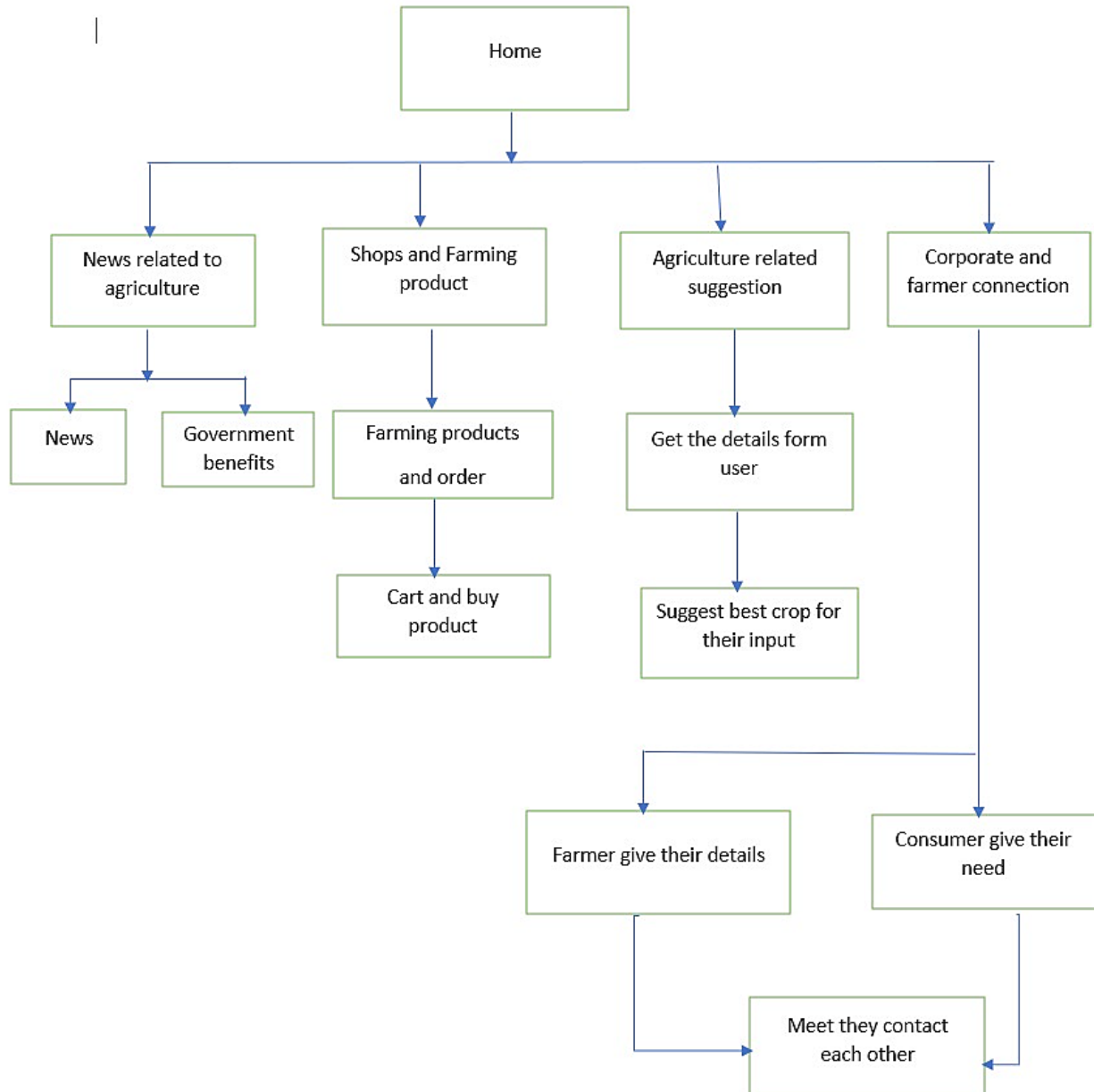
3.2 Hardware/ Software :

- 1.Computer
- 2.network
- 3.dataset
- 4.vs code
- 5.HTML
- 6.CSS
- 7.Javascript

4.EXPERIMENTAL INVESTIGATION



5.FLOWCHART



6. RESULT

The way we use it now, the factories are making good profits and the intermediaries are making good profits. But farmers are not getting proper money. In this way, the farmers get a good profit. Factories can also select and obtain the quality raw materials they need. It improves their profits.

Companies can demand what kind of product they want before sending the raw material. It will improve the final product's quality. It is a single app benefit for both consumers and farmers. It is more effective for farmer. Because, We provide all the details about farming techniques and give farming suggestions.

It is very useful for those who newly started a farming or agriculture-related business and want to know how to make the business profitable.

7.ADVANTAGES & DISADVANTAGE

Advantages

- It is very useful for new generation farmer.
- It is like a guide for farmers.

Disadvantages

- Some farmers are didnot have knowldege about

technologies. It is not useful for all the farmers.

- Market is Changeable one so all the time it is not Give best suggestion.

8.APPLICATIONS

It fully focused on Agriculture. Farmers used for their farming. Corporates also use this website. It is also useful for Agriculture students.

9.CONCLUSION

This Website is very useful for farmers and Corporates. This easy to accessable and easy to use. It is useful to increase the profit, increase the Yield , increase the value of products.

10. FUTURE SCOPE

In future, we give our website in the main languages in India.

11. BIBILOGRAPH

<https://farmer.gov.in/>

<https://www.kaggle.com/search?q=agriculture+tag%3A%22agriculture%22>

