

FARMBOT

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Abstract-Farmers have a lot of problems in selling their harvested crops, they don't find trusted distributors, they don't find the right price etc. so we decided to build a chatbot to connect farmers and customers. Customers can search for the crop they require and the chatbot will provide the contact information of the farmer(s) nearby cultivating those crop(s), customer can then contact the farmer and hence achieving a direct connection between the customer and the farmer removing the distributor and other middlemen and their cuts. We also want to help the emerging farmers and hence we involved a farmer help section in our chatbot where new farmers can get help on how to cultivate crops and how they can get maximum profits from their harvest.

I. INTRODUCTION

Farmers right now face problems in getting good returns with the sale of their harvest as the middlemen take a big chunk of the profit, our solution helps in getting maximum profits by directly giving you the address of the buyer, removing the need of the middlemen. Allowing a customer can directly buy from the farmer instead of the retailer. This will give better profit to the farmer and also be cheaper to the customer compared to the general retail method.

Now-a-days there is a slow emerging wave of farmers set to grow larger and larger overtime, it is predicted that people working in various sectors will shift to farming as their source of income. This means a high rise in young farmers, these farmers will need assistance in farming and need some kind of mentor to always be there to solve doubts and at the same time give tips to make sure they get the highest possible profit for their harvest. Our solution acts as that mentor as well as a medium to find additional help.

II. PROPOSED WORK:

An interactive chatbot as a replacement to the middlemen which does not take any commission, just connects the farmer and the customers. Advantages of having a chatbot as the solution is that if there is a urgent important doubt we can directly get to the point and ask the question. Chatbot is always available and also eradicated the problem of redundancy of information. Also a chatbot can easily be updated to do newer tasks, and this is good for the longevity of our solution. The more data the machine gets the smarter it becomes, this means by time the chatbot will keep getting better.

The main purpose of the proposed system is to establish a connection between the customer looking for a certain set of crops and the farmers cultivating it, and also to assist upcoming new farmers in farming by giving tips and providing services like soil test. The customer will mention the crops he needs and his location and the chatbot will pull out the information of the farmer harvesting that crop near his location.

III. EXPERIMENT AND RESULT

The Chatbot we developed acts as a replacement to the middleman while also helping upcoming farmers by giving them some suggestions. The resultant is a interactive chatbot for farmers and customers to connect and perform their transaction without the middleman.

Welcome to FARBOT

Your one stop destination for all your needs

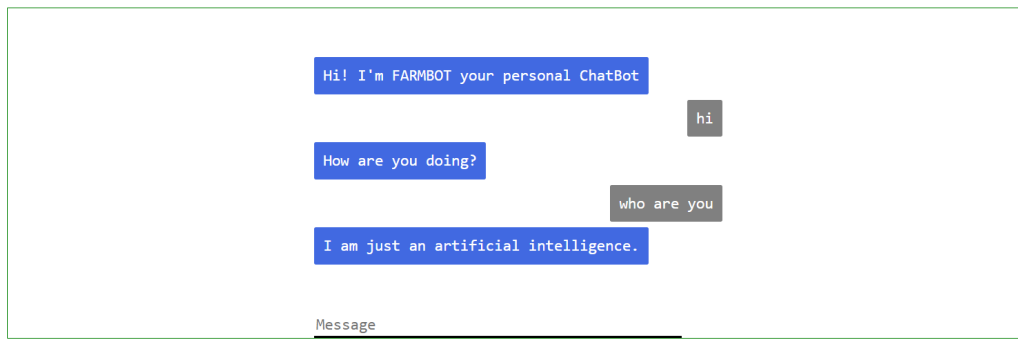


Figure 1.Farmbot running on web interface.

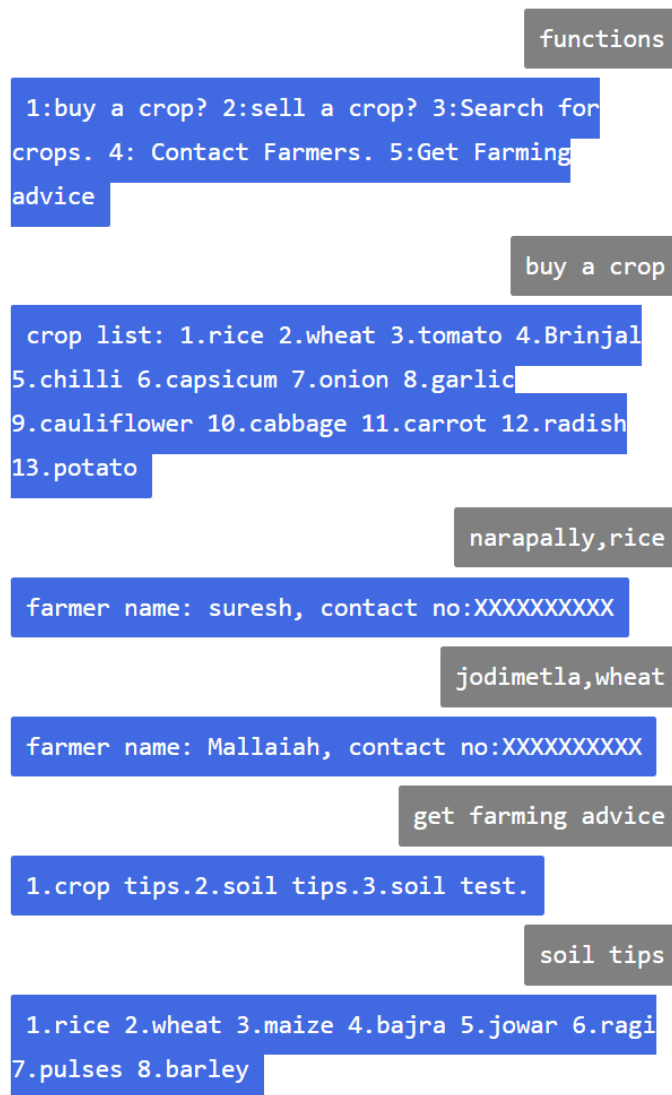


Figure 2.Customer interacting with the Farmbot.

IV. CONCLUSION

We developed an interactive, easy to use solution to the problem by creating a bot that eliminates the middleman in the sale of the harvested crops. This improves the profits for the farmer and also decreases the cost for the customer at the same time. In addition to that we provided tips depending on the soil, soil test and general advice in farming. This helps the upcoming farmers to feel less clueless about farming.

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