1. Customer Segment (S)



Data Analytics in Agiicultuíe Maíket ieseaích discusses the maíket's upcoming píoblems and possibilities. Byoffeíing all of the ciucial facts linked to maíket gíowth, the study ensuies a ieinfoiced position in the industíy and a ising píoduct poitfolio.

6. Customer Constraints

their crops.

Practically all agricultural production is reliant on natural conditions such as climate,

soil, pests, and weather. With the help of data

analysis for agriculture businesses, farmers can observe the impact that extreme weather

conditions and other phenomena can have on



5. Available Solution's



Smart-agricultural-system

The proposed system will integrate the data

obtained from soil, crop repository, weather department and by applying machine learning algorithm: Multiple Linear Regression, a prediction of most suitable crops according to current environmental conditions is made. This provides a farmer with variety of options of crops that can be cultivated. https://www.youtube.com/watch?v=7z R-3olbr9E&t=186s

2. JOBS-TO-BE-DONE / PROBLEMS

It is crucial to understand the current nutrient levels of the soil to be able to ascertain which areas require improvement. Our LaquaTwinrange of portable meters can provide in- field analysis in your pocket.

9. PROBLEM ROOT CAUSE

Practically all agricultural production is reliant on natural conditions such asclimate, soil, pests, and weather. Withthe help of data analysis for agriculture businesses, farmers can observe the impact that extreme weather conditions and other phenomena can have on their crops. Analytics in agriculture are informing how farmers should manage pests. Digital tools and data analysis in agriculture arebeing utilized to scientifically deal with harmfulinsects. Agricultural pests can quickly cut into a farmer's profits.

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3. TRIGGERS



- Soil and Crop analysis
- Weather Prediction
- Fertilizer Recommendation
- Disease Detection and Pest Management
- Adaptation to climate change
- Automated Irrigation System

4. EMOTION: BEFORE / AFTER



BEFORE:

Limitations include data and metadata gaps, insufficient data storage, preservation, and documentation, lack of scalable spatiotemporal big data analytics methods, and inadequate secure data-sharing mechanisms.

AFTER:

enables the farmer to not only conduct better practices but also to be able to make predictions and extemporaneous adjustments due to factors such as weather, as well as more accurate calculations regarding product and fertilizer type, amounts, and application rates.

10. YOUR Solution

This project not only for farmers also useful for

businessmen to monitor the real-time health of

the crop which can help the farmer to estimate

accordingly. Many farmers don't understand the

real-time situation of soil and as a result, face a

the missing nutrients in the soil and act

lack of production from the harvest



8.CHANNELS OF BEHAVIOUR



ONLINE

data analytics allows farmers to start and harvest their crops at an optimum time, which maximises crop yields and minimises stress. Rather than filling up an entire plot, farmers can account for the fluctuations in demand.

OFFLINE

To increase quality and yields, it is crucial tounderstand the current nutrient levels of thesoil to be able to ascertain which areas require improvement