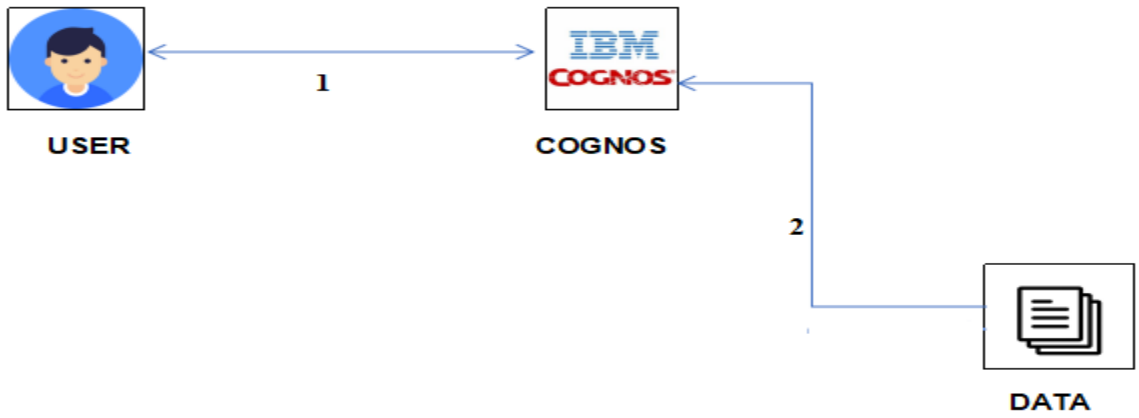
ESTIMATE THE CROP YIELD USING DATA ANALYTICS

PROBLEM STATEMENT

- Crop production in India is one of the most important sources of income and India is one of the top countries to produce crops.

- As per this project we will be analyzing some important visualization, creating a dashboard and by going through these we will get most of the insights of Crop production in India.

Technical Architecture:



Who does the problem affect?	If the crop yield is not as expected: 1. It affects the Indian Economy. 2. It creates loss for the Farmers. 3. It affects the people who are dependent on crop yield.
What is the issue?	If the predicted output is wrong, it affects the expectations of the Farmers.
When does the issue occur?	The crop yield will be affected when there is: 1. No adequate rainfall. 2. Low nutrition in soil. 3. Unpredictable climatic changes. 4. Pests and insects. 5. Inaccurate data.
Where does the issue occur?	1. When the Data is inaccurate. 2. Making decisions without proper evidence.
What are the boundaries of the problem?	1. Accuracy in Data collected. 2. Proper harvesting to see good profit. 3. Future Prediction.
What solution to solve this issue?	An interactive tool to assist the Farmers in predicting the crop yield based on numerous factors like Rainfall,soil,temperature,humidity,etc.
What methodology is used to solve the issue?	1. Predictive Data Analysis using large Datasets. 2. More amount of Data gives more accurate predictions.
Why is it important that we fix the problem?	1. Agriculture is the backbone of the Indian Economy. 2. Farmers will plan according to the predicted results. 3. Crop yield can be increased. 4. Improves profit. 5. Prevents lack of food resources. 6. Real time results. 7. Insights to make decisions.