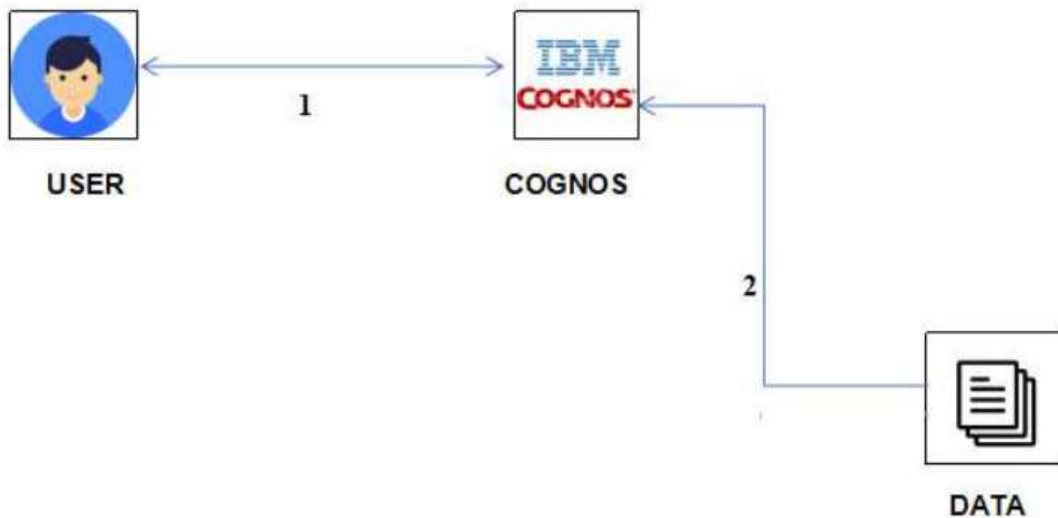


## Problem Statement

Estimate The Crop Yield Using Data Analytics 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:



Mr.T Ranjith kumar is a 40 years old man. He had a own farming land and do Agriculture for past 20 Years , In this 20 Years he Faced a problems in crop yield . He wants to know when he will obtain more yield also choosing right crop that can be grown in particular region on a particular season.

- He has faced huge losses for a long time.
- This problem is usually faced by most farmers.
- Mr.T.Ranjith Kumar needs to know the result immediately.

Who does the problem affect?	<p>If the crop yield is low,</p> <ul style="list-style-type: none"> <li>• The farmers who have cultivated the crop</li> <li>• People who are dependent on the crop yield as the food</li> <li>• Indian Economy because Crop production is one of the most important sources of the income. They will be affected if there is a problem in low yield</li> </ul>
What are the boundaries of the problem?	<ul style="list-style-type: none"> <li>• The harvest should be good,so that the profit will get Improved.</li> <li>• Future prediction – What will happen if we make that decision.</li> <li>• Do all the possible ways to change moving forward.</li> <li>• Location matters for a good crop yield.</li> <li>• Data Analytics require Critical Thinking.</li> <li>• Want reliable data for analysis</li> </ul>
What is the issue?	<ul style="list-style-type: none"> <li>• If we do wrong prediction,the crop yield will be affected.</li> </ul>
When does the issue occur?	<p>The crop yield will be affected,if</p> <ul style="list-style-type: none"> <li>• There is an extreme weather</li> <li>• Bugs and Insects</li> <li>• Soil Erosion</li> <li>• Low quality of data for analysis</li> <li>• Lack of commitment and patience</li> </ul>
Where does the issue occur?	<p>Due to lack of research on data for analysis</p> <ul style="list-style-type: none"> <li>• If we work without the evidence base</li> <li>• If the location is not considered during analysis</li> </ul>
Why is it important that we fix the problem?	<p>If we fix the problem,</p> <ul style="list-style-type: none"> <li>• Good Harvest</li> <li>• Insight of Crop production in India</li> <li>• Visible progress in the yield</li> <li>• Predictive Analysis of crop in real time</li> <li>• Improves Profit</li> </ul>
What solution to solve this issue?	<p>A system is introduced to analyze and estimate the crop yield on a particular area and on a particular season.</p>
What methodology used to solve the issue?	<p>Data analytics techniques can be used . Using the previous data right crop for right season and soil can be identified. Hence more yield can be obtained.</p>