1 Introduction

1.1 Overview

Crop yield data of India for specific period is made available. Use the data to understand the informatation and use the same for meaningful information, reporting, and decisions making purposes.

1.2 Purpose

To understand and analyse the crop data across the various crop seasons, years and states of India to ascertain the overal production figures of the country across the various crop season, area under production, yield, crop, and state wise.

2 Literature Survey

2.1 Existing problem

Data analysis using open source programming tools like R, Python, or other programming tools calls for extensive coding and code deployment skills. Consequently, one also needs to maintain a team of programmers to maintain the programming assets.
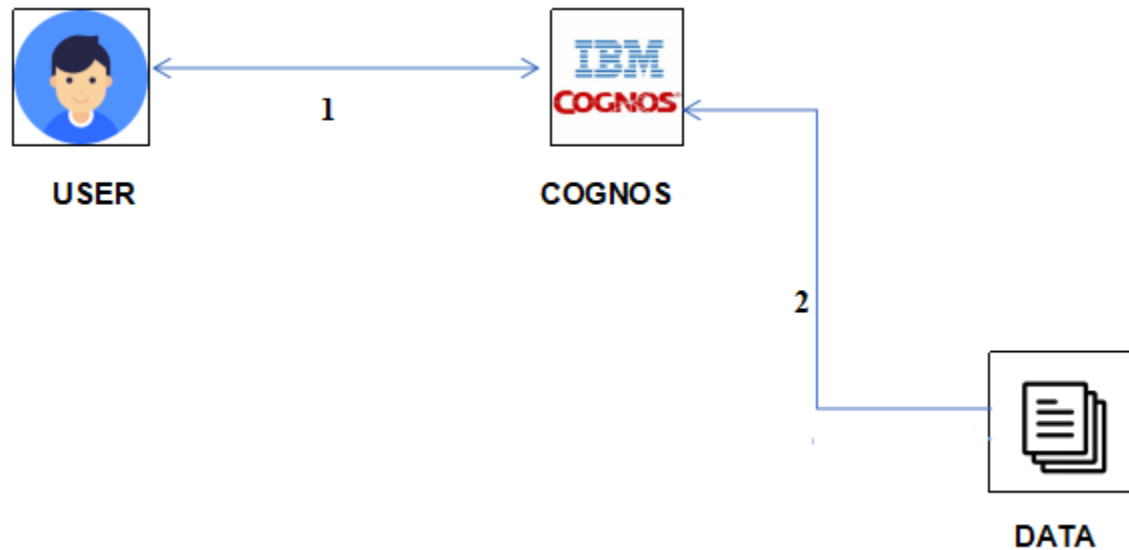
2.2 Proposed solution

Post data cleaning using commercial tools like Cognos for rapid data analysis leading to excellent story telling features. Cognos Analytics is now available as a cloud based reporting and visualization tool thereby giving the advantages of access via internet, and lowering the cost of deployment. The tool also has reasonable data management interfaces.

3 Theoritical Analysis

Use a data analytics tools like Cognos or Tableayu give a great advantage by providing consistency, rapid development, methods for sharing the analytics and they are provide AI based features for initiutive development of the visualizations leading to dyanmic analysis.

3.1Block Diagram

3.2 Hardware / Software designing

4 Experimental investigation

5 Flowchart

Get data from authenitc data source -->> Data cleaning -->> Data analysis -->> Data upload to Cognos -->> Create visualizations -->> Create story

6 Result

7 Advantages and Disadvantages

7.1 Advantages

- Cognos Analytics is availbale as a cloud deployment thereby providing all advantages of a cloud based service.
- Cognos has a hot intitutive charts which could prepared using dashboard. A collection of dashboard could be used to tell a story.
- Cognos has features for data management.

7.2 Disadvantages

- Trial version has limited features
- Trial version is offered for just 30 days, which is less for making a meaningful product orientation.

8 Applications

- Can use used across domains

9 Conclusion

- Rapid creation of vizualiation using Cognos
- Use of filters and other tools to create deeper analysis
- Use of dashboard to create a story

10 Future Scope

- Use of global parameters for dynamic analysis

11 Biblography

Appendix