Estimate the Crop Yield using
Data Analytic

Project Design Phase-II

Data Flow Diagram

Data Flow Diagrams:

A data flow diagram shows the way information flows through a process or system. It includes **data inputs and outputs, data stores, and the various subprocesses the data moves through**. DFDs are built using standardized symbols and notation to describe various entities and their relationships. Data flow diagrams are used **to graphically represent the flow of data in a business information system**. DFD describes the processes that are involved in a system to transfer data from the input to the file storage and reports generation.

Data flow diagram

users

Data collection

data from different users

Crop dataset

Classification of data

Through weather and climatic forecasting

District yield data

State yield data

Data processing

different crops and fields.

Data analysis

Tool for analysis

Prediction analysis

Cognos analytics

Predicting yield using ML

Exploration of data

Regression analysis

Train and test model

Visualization of data

Model evaluation

Resulted yield analysis

Estimated yield