PROJECT SCOPE

• PROJECT SUMMARY

- Smart Agriculture System based on IoT can monitor soil moisture and climatic conditions to grow and yield a good crop.

- The farmer can also get the real time weather forecasting data by using external platforms like Open Weather API.

- A Farmer is provided a mobile app using which he can monitor the temperature, humidity and soil moisture parameters along with weather forecasting details

- Based on all the parameters he can water his crop by controlling the motors using the mobile application.

- Even if the farmer is not present near his crop he can water his crop by controlling
  the motors using the mobile application from anywhere.

• PROJECT REQUIREMENTS

- IoT Cloud Platform
- IoT Application Development

• SOFTWARE REQUIREMENTS

- Python IDE
- GIT tool and Node red

• PROJECT DELIVERABLES

- Explore IBM Cloud Platform
- Connect The IOT Simulator to Watson IOT Platform
- Configure The Node Red to Get the Data from IBM IOT Platform and Open Weather API
- Building A Web App
- Configure Device to Receive the Data from The Web Application and Control Motors

• PROJECT TEAM

It is an individual project guided by Durga Prasad. There is a slack channel to post queries with our mentor.

• PROJECT SCHEDULE

It is four-week project in which there are technical sessions twice per week.