Project design phase-II

Technology stack (Architecture & stack)

Date	15-10-2022
Team ID	PNT2022TMID29985
Project name	AI-Fertilizers recommendation system for disease prediction
Maximum Marks	4 Marks

Technical Architecture:

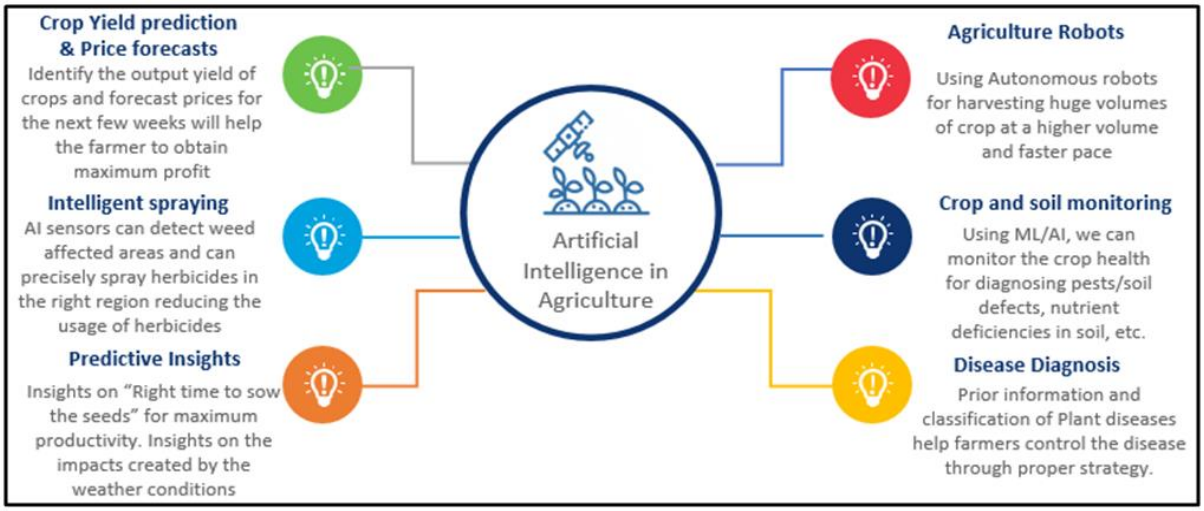

TABLE-1

S.NO	COMPONENTS	DESCRIPTION	TECHNOLOGY
1.	User interface	The user interface is the point of human interaction and communication in a device.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application logic-1	Application logic is the engine that bridges the gap between business logic and the user interface.	Java / Python
3.	Application logic-2	Application logic is the engine that bridges the gap between business logic and the user interface.	IBM Watson STT service
4.	Application logic-3	Application logic is the engine that bridges the gap between business logic and the user interface.	IBM Watson Assistant
5.	Databases	A data type is a data attribute that helps you set constraints on the data,such as acceptable values and what operations may be performed on that data. Configuration is the arrangement or the process of making the arrangement of the parts that make up a whole.	MySQL, NoSQL, etc.
6.	Cloud database	A cloud database is a database built to run in a public or hybrid cloud environment to help organize, store and manage data within an organization.	IBM DB2, IBM Cloudant etc
7.	File storage	File storage is the hierarchial storage methodology used to organize and store data on a computer hard drive or on network attached storage (NAS) device.	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	External APIs expose a business's internal resource to outside users or applications.	IBM Weather API, etc.
9.	External API-2	External APIs expose a business's internal resource to outside users or applications.	Aadhar API, etc.
10.	Machine learning Model	The purpose of Mechine learning is to design algorithms that automatically help a system gather data and use that to learn more.	Object Recognition Model, etc.
11.	Infrastructure (Server/Cloud)	Application Deployment on Local System / Cloud Local Server Configuration:IBM Watson studio Cloud Server Configuration : IBM Watson Cloud	Local, Cloud Foundry, Kubernetes, etc.

TABLE-2: APPLICATION CHARACTERISTICS:

S.NO	CHARACTERISTICS	DESCRIPTION	TECHNOLOGY
1.	Open-source frameworks	Tensorflow, RNN, Theano, Pytorch, Caffe2	Django, Angular JS, Angular, React.
2.	Security Implementations	Security works with you to help protect your business with an advanced and integrated portfolio of enterprise security products and services, infused with AI and a modern approach to your security strategy using zero trust principles helping you thrive in the face of uncertainity	Maximo. software Envizi. SaaS
3.	Scalable Architecture	Scalability is the property of a system to handle a growing amount of work by adding resource to the system.	Artificial intelligence
4.	Availability	The availability is whether someone or something can be accessed or used .	ACT