Fertilizers Recommendation System For Disease Prediction

Prerequisites

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Project Name	Fertilizers Recommendation System For Disease Prediction

Prerequisites

To complete this project you should have the following software and packages

ANACONDA NAVIGATOR:

Anaconda Navigator is a desktop graphical user interface (GUI) included in Anaconda Distribution that allows you to launch applications and manage conda packages, environments, and channels without using command line interface (CLI) commands. Navigator can search for packages on Anaconda.org or in a local Anaconda Repository. It is available for Windows, macOS, and Linux.

Why use Navigator?

In order to run, many scientific packages depend on specific versions of other packages. Data scientists often use multiple versions of many packages and use multiple environments to separate these different versions.

The CLI program conda is both a package manager and an environment manager. This helps data scientists ensure that each version of each package has all the dependencies it requires and works correctly.

Navigator is a graphical interface that enables you work with packages and environments without needing to type conda commands in a terminal window. You can use it to find the packages you want, install them in an environment, run the packages, and update them all inside Navigator.

TENSOR FLOW:

The name TensorFlow comes from the design of the system. TensorFlow is designed to work with large data sets made up of many different individual attributes. Any data that you want to process with TensorFlow has to be stored in the multi-dimensional array. These multi-dimensional arrays are also called tensors.

Tensor Flow allows developers to create dataflow graphs structures that describe how data moves through a graph, or a series of processing nodes. Each node in the graph represents a mathematical operation, and each connection or edge between nodes is a multidimensional data array, or tensor.

KERAS:

Keras leverages various optimization techniques to make high level neural network API easier and more performant. It supports the following features:

- · Consistent, simple and extensible API.
- Minimal structure easy to achieve the result without any frills.
- It supports multiple platforms and backends.
- It is user-friendly framework that runs on both CPU and GPU.
- Highly scalability of computation.

FLASK:

Flask is a micro web framework written in Python. It is classified as a micro framework because it does not require particular tools or libraries. It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide common functions. However, Flask supports extensions that can add application features as if they were implemented in Flask itself. Extensions exist for object-relational mappers, form validation, upload handling, various open authentication technologies and several common framework related tools.