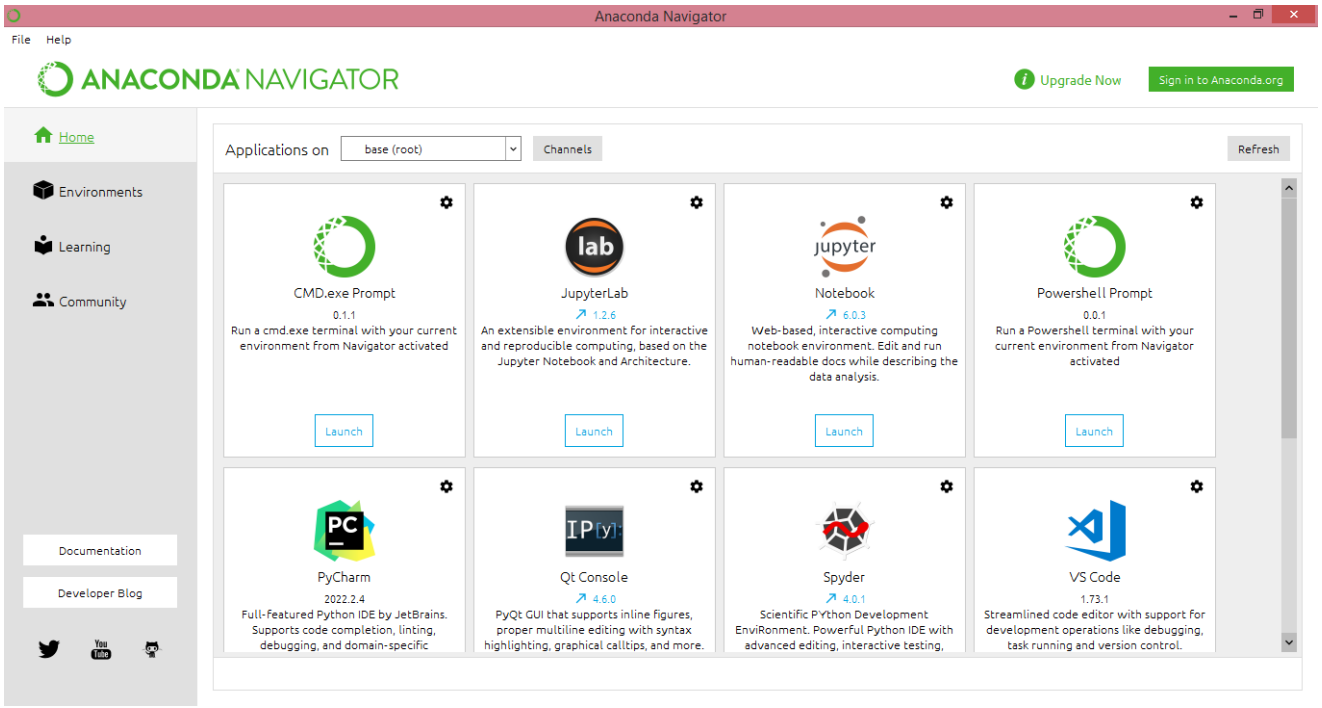
PROJECT PREREQUISITES

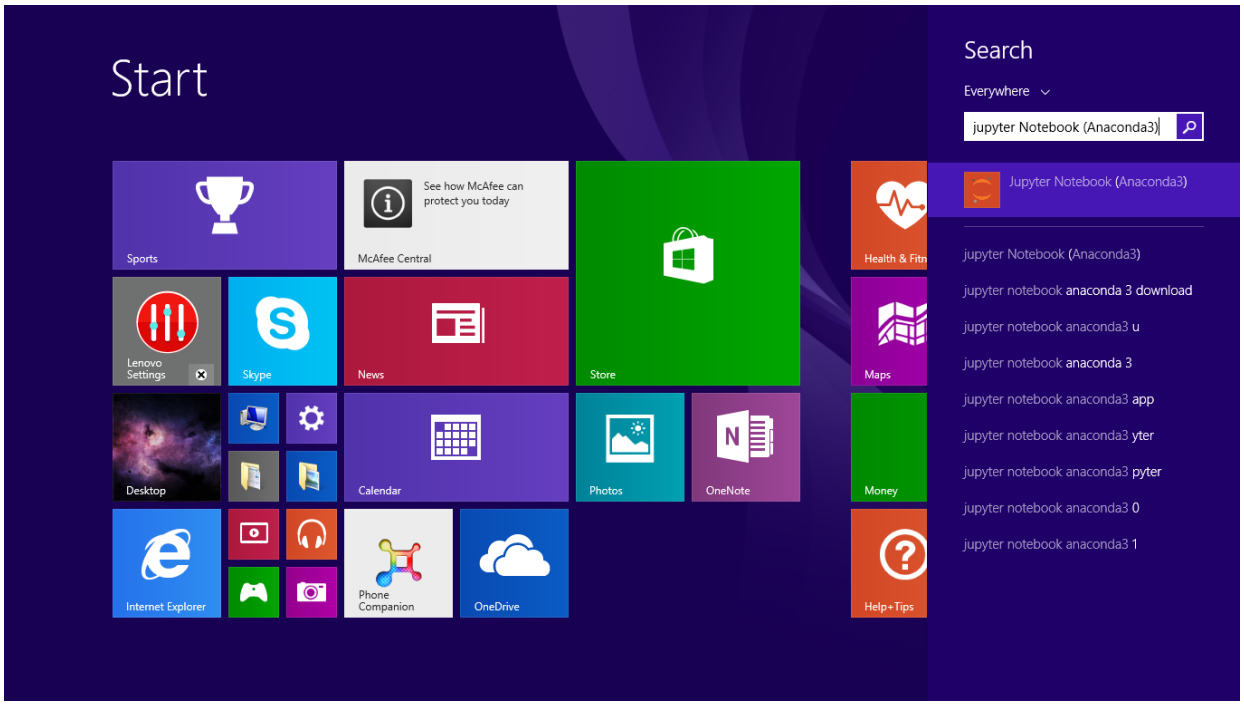
Date	10 November 2022
Team ID	PNT2022TMID21501
Project Name	Fertilizers Recommendation System For Disease Prediction
Maximum Marks	4 Marks

Anaconda Navigator:

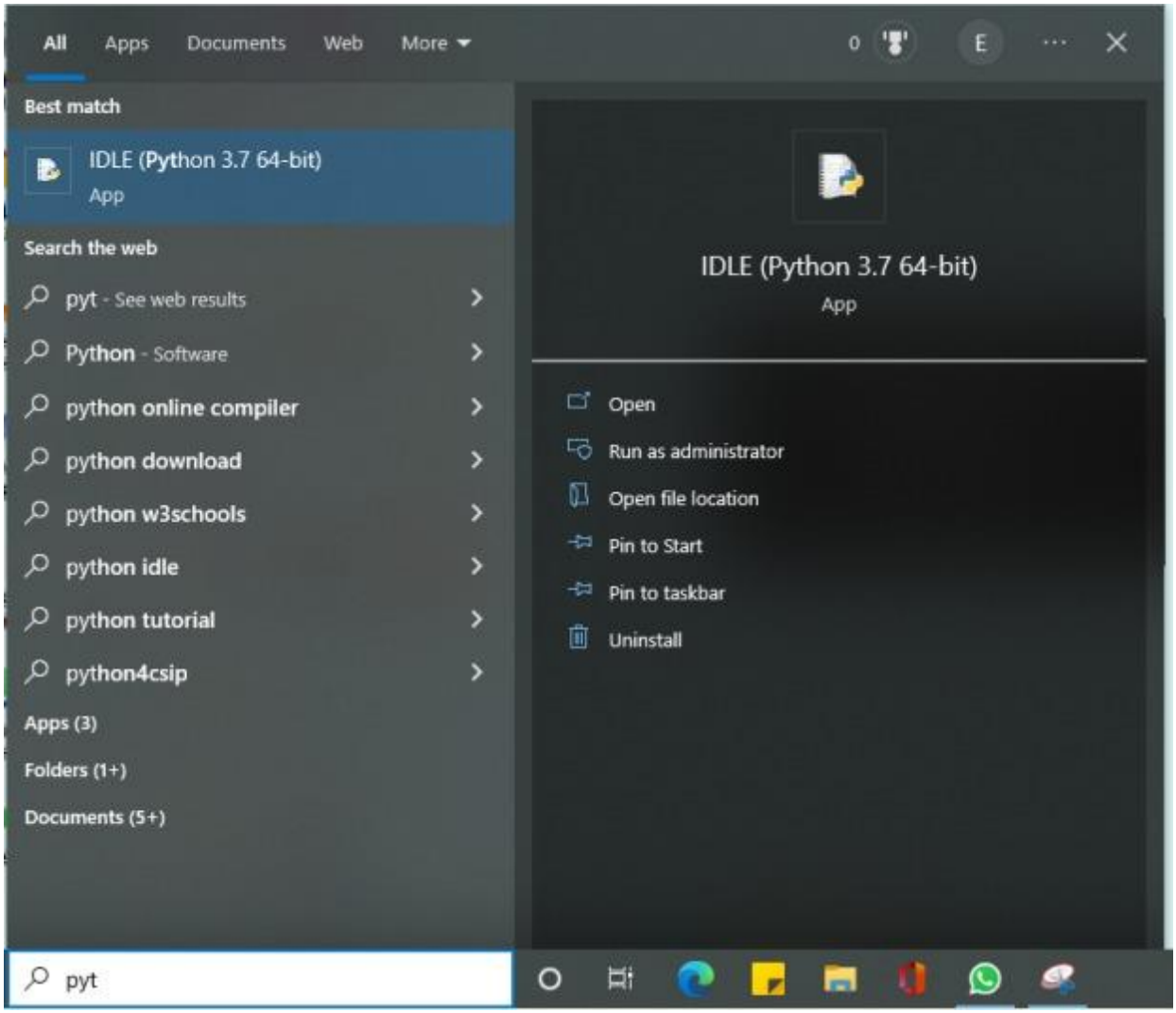
Anaconda Navigator is a free and open-source distribution of the Python and R programming languages for data science and machine learning-related applications. It can be installed on Windows, Linux, and macOS. Conda is an open-source, cross-platform, package management system. Anaconda comes with so very nice tools like JupyterLab, Jupyter Notebook,QtConsole, Spyder, Glueviz, Orange, Rstudio, Visual Studio Code. For this project, we will be using Jupiter notebook and Spyder.



Jupyter Notebook:
Used when Training and Testing the model



Python: Base language to run TensorFlow and Flask



TensorFlow: To Train, Test and Predict
TensorFlow is an end-to-end open-source platform for machine learning. It has a comprehensive, flexible ecosystem of tools, libraries, and community resources that lets researchers push the state-of-the-art in ML and developers can easily build and deploy ML powered applications.

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: To create the UI for the Application
Web framework used for building Web applications.