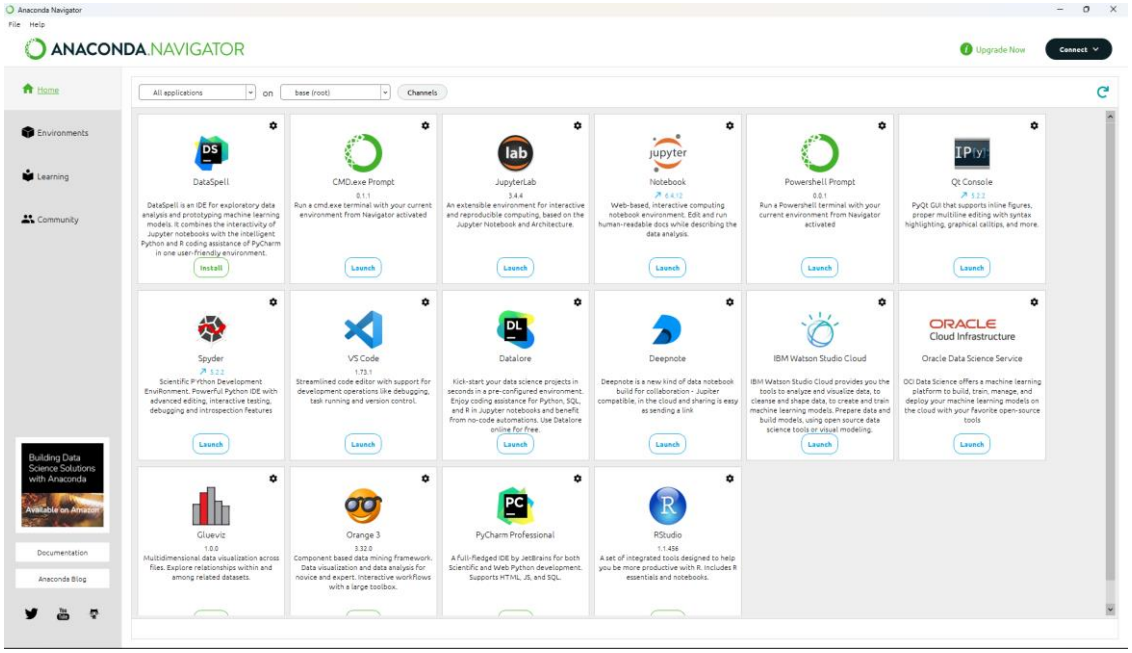
Prerequisites

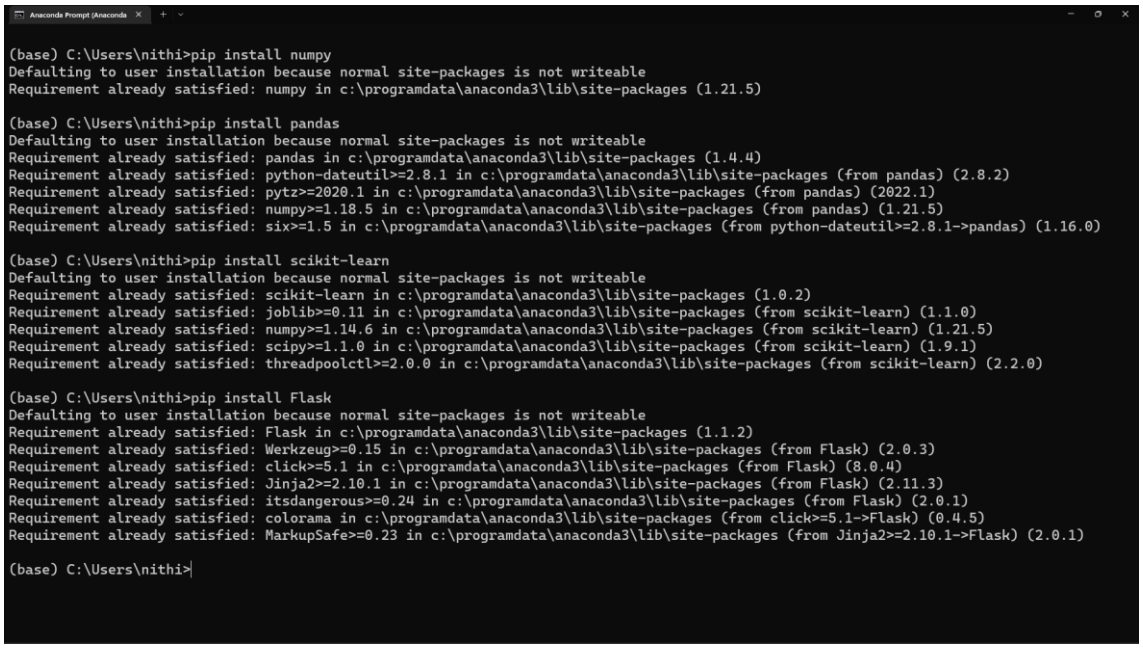
Team ID	PNT2022TMID44098
Project Name	Intelligent Vehicle Damage Assessment & Cost Estimator For InsuranceCompanies

To complete this project, you must require the following software, concepts, and packages:

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. Forthis project, we will be using a Jupyter notebook and Spyder.





1. To build Machine learning models you must require the following packages

- **Numpy:**
  - It is an open-source numerical Python library. It contains a multidimensional array and matrix data structures and can be used to perform mathematical operations

- **Scikit-learn:**

  - It is a free machine learning library for Python. It features various algorithms like support vector machine, random forests, and k-neighbors, and it also supports Python numerical and scientific libraries like NumPy and SciPy

- **Flask:**

Web framework used for building Web applications

- **Python packages:**
  - open anaconda prompt as administrator

  - Type **"pip install numpy"** and click enter.
  - Type **"pip install pandas"** and click enter.
  - Type **"pip install scikit-learn"** and click enter.
  - Type **"pip install tensorflow==2.3.2"** and click enter.
  - Type **"pip install keras==2.3.1"** and click enter.
  - Type **"pip install Flask"** and click enter.

- **Deep Learning Concepts**

  - **VGG16:** VGG16 is a transfer learning method. A pre-trained model trained on 1000 classes of images.
    VGG basic

  - **Flask:** Flask is a popular Python web framework, meaning it is a third-party Python library used for developing web applications.
    Flask Basics

If you are using Pycharm IDE, you can install the packages through the command prompt and follow the same syntax as above.