## Intelligent Vehicle Damage Assessment & Cost Estimator for Insurance Companies Prerequisites

To complete this project, we 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. For this 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.

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## 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

In Pycharm IDE we can install the packages through the command prompt.