Project Objectives:

The main objective of the this project is to build a model to predict the used car's value and also create an decision making model whether to Buy/Sell the car or not.

By the end of the project we will,

- 1. You'll be able to understand the problem to classify if it is a regression or a classification kind of problem.
- 2. You will be able to know how to pre-process/clean the data using different data pre-processing techniques.
- 3. Applying different algorithms according to the dataset
- 4. You will be able to know how to evaluate the model.
- 5. You will be able to build web applications using the Flask framework.

Project Flow:

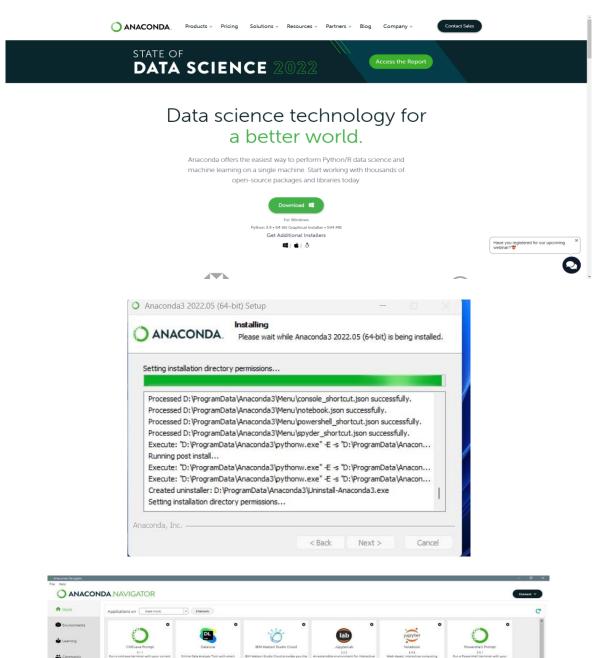
- The user interacts with the UI (User Interface) to enter the input features
- Entered input features are analysed by the model which is integrated
- ➤ Once the model analyzed the input, the prediction is showcased on the UI
- Report of the car is generated as a pdf on the demand of the user
- A decision is given to the user whether to Buy/Sell this car

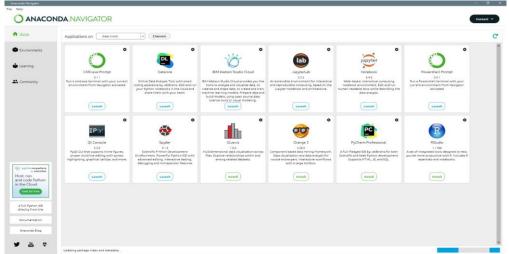
To accomplish this, we have to complete all the activities and tasks listed below

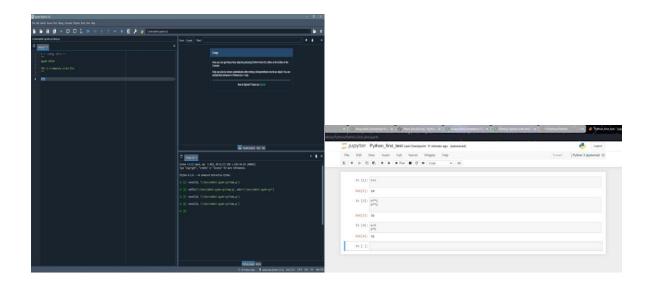
- ✓ Download the dataset.
- ✓ Preprocess or clean the data.
- ✓ Analyze the pre-processed data.
- ✓ Train the machine with preprocessed data using an appropriate machine learning algorithm.
- ✓ Save the model and its dependencies.
- ✓ Build a Web application using Flask that integrates with the model built.

Pre – Requisites:

Step 1: To install the anaconda navigator







Step 2: To install the Following packages

- ✓ Sklearn pip install scikit-learn
- ✓ Numpy pip install numpy
- ✓ Pandas pip install pandas
- ✓ Matplotlib pip install matplotlib
- ✓ Flask pip install Flask

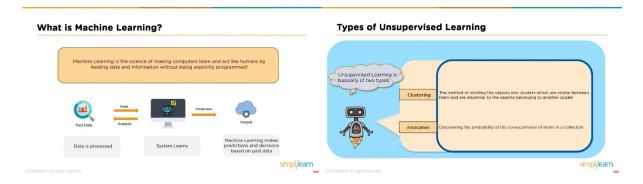
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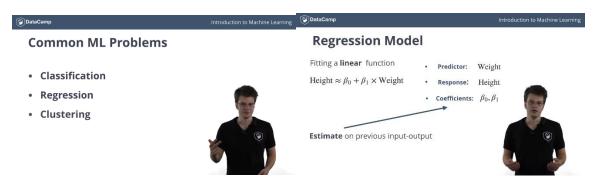
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Prior Knowledge:

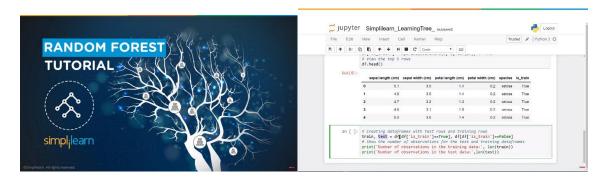
1. Supervised and unsupervised learning



2. Regression Classification and Clustering



3. Random Forest Regressor



4. Flask:

