**Pre-RequisitesandPriorknowledge**

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| Date | 29October2022 |
| TeamID | PNT2022TMID42883 |
| ProjectName | Project-CarResaleValuePrediction |

Inordertodevelopthisprojectweneedtoinstall thefollowingsoftware/packages:Step1:

AnacondaNavigator:

Anaconda Navigator is a free and open-source distribution of the Python and R programminglanguages for data science and machine learning related applications. It can be installed onWindows, Linux, and macOS. Conda is an open-source, cross-platform, package managementsystem.AnacondacomeswithgreattoolslikeJupyterLab,JupyterNotebook,QtConsole,Spyder,Glueviz,Orange,Rstudio,VisualStudioCode.

Forthisproject,wewillbeusingJupyternotebookandSpyderStep2:

TobuildMachinelearningmodelsyoumustrequirethefollowingpackagesSklearn:

Scikit-learnisalibraryinPythonthatprovidesmanyunsupervisedandsupervisedlearningalgorithms.

NumPy:

NumPyisaPythonpackagethatstandsfor'NumericalPython'.Itisthecorelibraryforscientificcomputing,whichcontains apowerfuln-dimensionalarrayobject

Pandas:

pandasisafast,powerful,flexible,andeasytouseopen-sourcedataanalysisandmanipulationtool,builtontopofthePythonprogramminglanguage.

Matplotlib:

It provides an object-oriented API for embedding plots into applications using general-purposeGUItoolkits

Flask:

WebframeworkusedforbuildingWebapplications.

Ifyouareusinganacondanavigator,followthebelowstepstodownloadtherequiredpackages:Openanacondaprompt.Type“pipinstallnumpy”andclickenter.Type“pipinstallpandas”and

clickenter.Type“pipinstallmatplotlib”andclickenter.Type“pipinstallscikit-learn”andclick

enter.Type“pip installFlask”andclickenter.

IfyouareusingPycharmIDE,youcaninstallthepackagesthroughthecommandpromptandfollowthesamesyntaxas above.

**Oneshouldhaveknowledgeofthefollowing Concepts**

* Supervisedandunsupervisedlearning
* RegressionClassificationandClustering
* RandomForestRegressor
* Flask