Project flow:

Step1- setup github repository and create a folder where we want to store product

Step-2 in command prompt do A black screen with white text

Description automatically generated

Step-3 create a virtual environment





Step-4 – git init



Step-5 – create a readme fiile and add it in github

A screen shot of a computer

Description automatically generated

A black screen with white text

Description automatically generated

A computer screen shot of a black screen

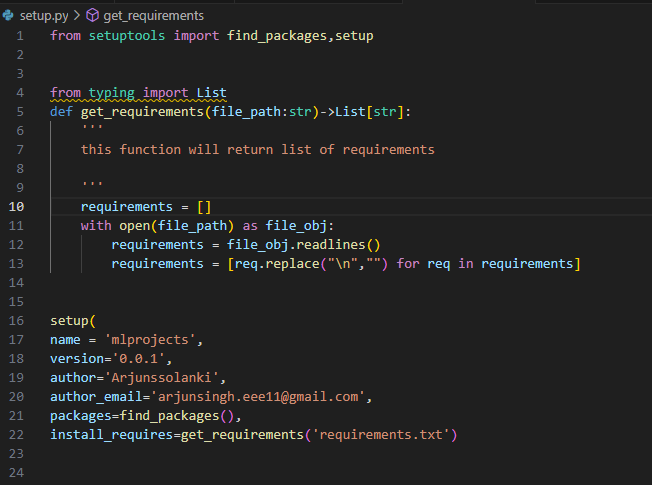
Description automatically generated

Step-6 create a requirements.txt and setup.py

A screen shot of a computer program

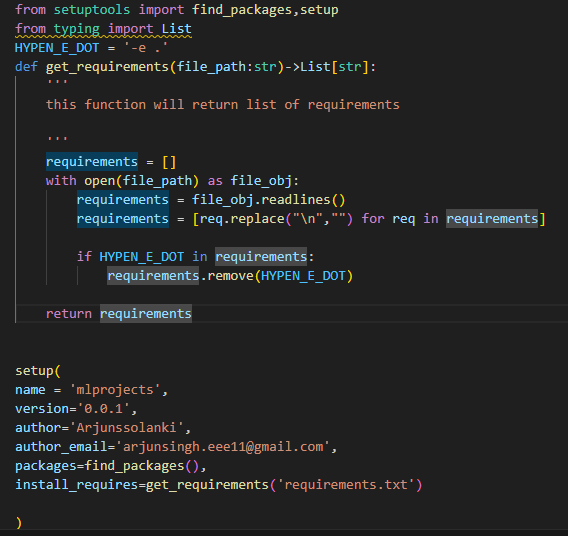
Description automatically generated

Modifiying setup.py



Step-7 src (source) is use to find out how many packages there are

create a source folder and put \_\_init\_\_.py in it

Step-8 modify the setup tool 

Then in terminal write pip install -r requirements.txt

Poject structure: maximum work is on src (source) folder

Step-1 create a folder name component ,in src with

\_\_init\_\_.py

Create data\_ingestion.py – consist the code like get the data set, split into train and test set

data\_tranformation.py- consist all the steps related to data transformation

model\_trainer.py – training code, different kinds of model etc

step 2- create a folder name pipeline cosisting in src

training\_pipeline.py – consist of training pipeline

prediction\_pipeline.py – consit of prediction pipeline

step-3 in src create a logger.py file and exception.py

1. Exception.py-

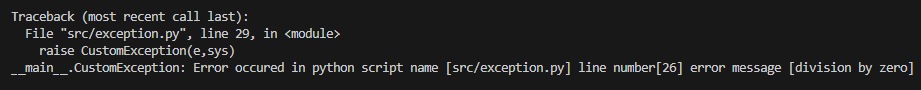
A screen shot of a computer program

Description automatically generated

Now run the file In the terminal

A black screen with white text

Description automatically generated



New log file is created

A black background with numbers and numbers

Description automatically generated

1. Logger.py –

A computer screen shot of text

Description automatically generated

Now we will run the code:

A black background with white text

Description automatically generated

Error occurred : Since logger.py is under src so we need to run it python src/logging.py

A black background with white text

Description automatically generated

New folder is created named log

A black background with numbers

Description automatically generated

A black background with white text

Description automatically generated

Implementing the project:

Do the EDA and model training part in notebook folder

Tutorial-4: https://youtu.be/\_0v1UK7smBc?si=pCiCYH22UuiTbCFI

Data ingestion :

Goal is to create a

artifact folder is to keep all these files organized in a central location, making it easier for developers to manage and track the different components of the project.

SRC/components/data\_ingestion.py

Step-1 read data from specific data source

A computer screen shot of a program code

Description automatically generated

A screen shot of a computer code

Description automatically generated

A screen shot of a computer code

Description automatically generated

Run the code on the terminal

A black background with white text

Description automatically generated

New folder name artifact is cretated consiting of train,test and raw data:

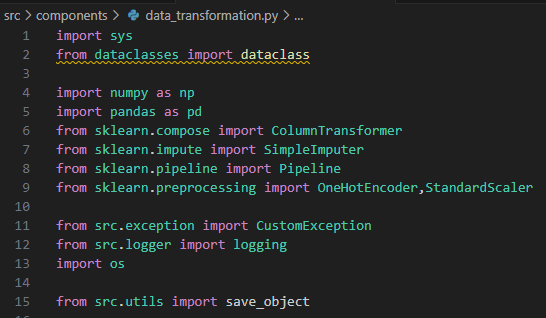
A screenshot of a computer program

Description automatically generated

Tutorial-5 <https://youtu.be/Zs2BZkgoivM?si=gpkuEmURcCTGW9Ll>

Data \_transformation.py

Feature engineering, data cleaning,etc for categorical and numerical features

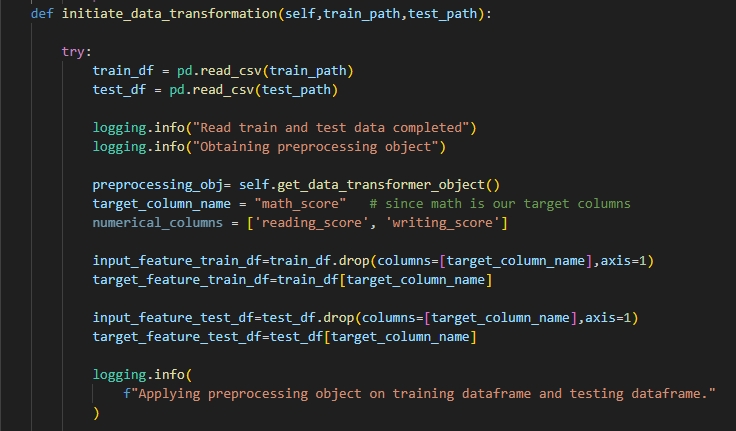


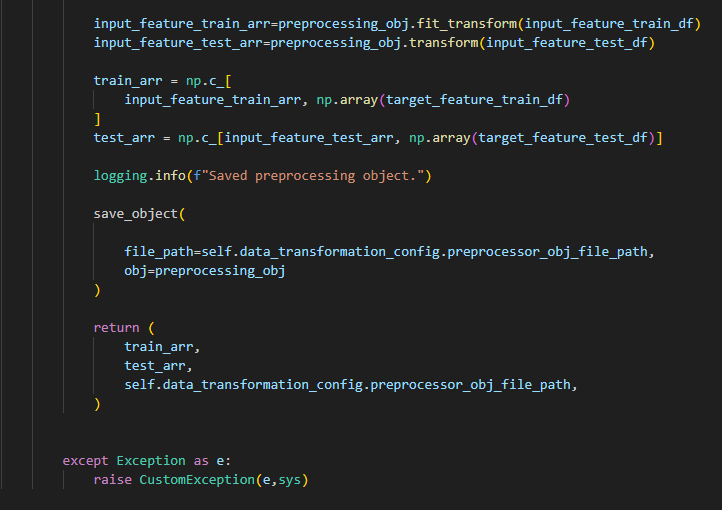
A computer screen shot of a program code

Description automatically generated

A computer screen shot of code

Description automatically generated





After doing all this fo to utils.py:

A screen shot of a computer program

Description automatically generated

Run the data\_ingestion.py in terminal

A black screen with white text

Description automatically generated

Now we can see in our log :

A screen shot of a computer program

Description automatically generated

And new pickle file is created in artifact:

A screenshot of a computer program

Description automatically generated

Tutorial -6 <https://youtu.be/EAWR1kFtEGo?si=5_Mwdk2FhYA3PPKl>

src\components\model\_trainer.py

A screenshot of a computer program

Description automatically generated

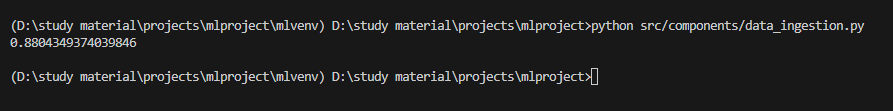
**A computer screen with many colorful text

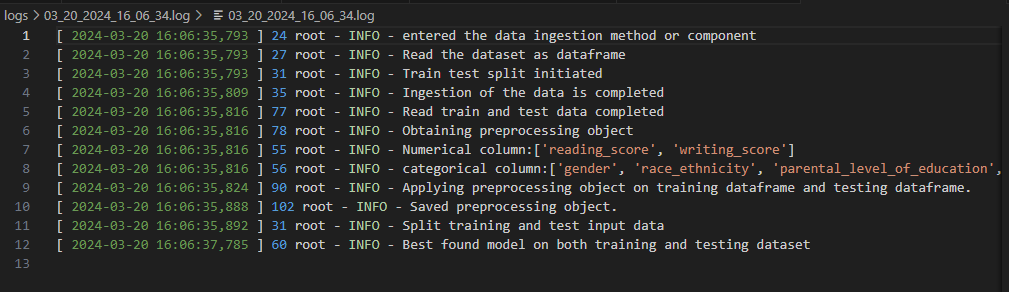
Description automatically generated**

**A screen shot of a computer program

Description automatically generated**

**Now running the data\_ingestion.py**





And we will get model.pkl and preprocesssor.pkl file

Tutorial-7 Hyperparameter tuning- <https://youtu.be/oMZA8v4JECY?si=KFefRAZ97bGlpzQW>

A computer screen shot of a program

Description automatically generated

Adding all this parameter in model\_trainer.py



Adding params feature both in utility.py and model\_trainer.py

In model\_trainer.py



In utility.py modified code is

A computer screen shot of a program code

Description automatically generated