1. Create a repository in github
2. Open anaconda prompt and type cd Z:\Data Science\mlproject ENTER.

Z: ENTER

code . ENTER 🡪 this will open vs code

1. For creating an environment in vs code:

Open the terminal in vs code.

Select command prompt in terminal.

Type the command: conda create -p venv python==3.8 -y.

conda activate venv/

1. To initialize empty git repository type: git init
2. Create a readme file in vs code. In the left panel you have mlproject under mlproject create a README.md file. Readme file is for writing descriptions of the project.
3. Add readme file into git. In vs code terminal type: git add README.md
4. Commit readme file into git type in vs code terminal: git commit -m "First commit"
5. Push the file into github repo type: git branch -M main
6. Repo in sync type: git remote add origin <https://github.com/K-Roshini-Reddy/mlproject.git>
7. To check whether it is synced with your repo type: git remote -v
8. For global config type: git config --global user.name "Roshini Reddy"

git config --global user.email roshinireddyk8@gmail.com

1. Pushing to git type: git push -u origin main
2. Reload github page you can see your README.md file.
3. Create a new file in github repo: .gitignore

Select the template as Python

Commit changes

1. In vs code type: git pull
2. Create a setup.py file in vs code. In the left panel you have mlproject under mlproject create a setup.py file. setup.py will be responsible in creating my machine learning application as a package.
3. Create a requirements.txt file in vs code. In the left panel you have mlproject under mlproject create a requirements.txt file. requirements.txt file will have all the packages that I need to install for my project.
4. Write code in setup.py
5. Create a new folder src, under mlproject in vscode.
6. If you want to find src as a package, create a file in src \_\_init\_\_.py
7. Write code in requirements.txt
8. In vs code terminal execute the following commands

pip install -r requirements.txt

git add .

git status

git commit -m "setup"

git push -u origin main

1. Create a components folder under src folder in vs code.
2. Create file \_\_init\_\_.py inside components folder in vs code.
3. Create data\_ingestion.py, data\_transformation.py, model\_trainer.py files inside components folder in vs code.
4. Create a folder pipeline under src folder in vs code.
5. Create \_\_init\_\_.py, train\_pipeline.py, predict\_pipeline.py files under pipeline folder in vs code.
6. Create logger.py, exception.py, utils.py files under src folder in vs code.
7. Write code in exception.py, logger.py
8. In vs code terminal execute the following commands

git status

git add .

git commit -m "logging and exception"

git push -u origin main

1. Create a folder notebook in the file explorer where your project is stored
2. Create a data folder under notebook folder.
3. Download the dataset file into the data folder.
4. Download both ipynb files under notebook folder.
5. In vs code terminal execute the following commands

git status

git add .

git commit -m "logging and exception"

git push -u origin main

1. Write code in data\_ingestion.py and in other necessary files

In .gitignore file in # Environments add .artifacts/

pip install -r requirements.txt

python src\components\data\_ingestion.py

git status

git add .

git commit -m "data ingestion"

git push -u origin main

1. Write code in data\_transformation.py and in other necessary files

pip install -r requirements.txt

python src\components\data\_ingestion.py

git status

git add .

git commit -m "data transformation"

git push -u origin main

1. Write code in model\_trainer.py and in other necessary files

pip install -r requirements.txt

python src\components\data\_ingestion.py

git status

git add .

git commit -m "model training"

git push -u origin main