Date: 13-Dec-24

**END TO END ML PROJECTS - KRISH NAIK YOUTUBE CHANNEL**

<https://www.youtube.com/watch?v=Rv6UFGNmNZg&list=PLZoTAELRMXVPS-dOaVbAux22vzqdgoGhG&index=2>

**Set up project with GitHub**

1. **Data Ingestion**
2. **Data Transformation**
3. **Model Trainer**
4. **Model Evaluation**
5. **Model Deployment**

CI/CD Pipelines - GitHub Actions

Deployment AWS

**Tutorial 1 - GitHub & Code Set up**

1. Set up the GitHub repository

Create new GitHub repository

**a) new environment**

Create new venv in VScode terminal

*conda create -p venv python==3.12 -y*

*conda activate venv/*

*git init*

*git add README.md (first create README.md file in VScode)*

*git commit -m "first commit"*

Add this for first time:

*git config --global user.email "akshaykr7775@gmail.com"*

*git config --global user.name "Akshay Kumar"*

*git branch -M main*

*git remote add origin https://github.com/akshaykr7/mlproject.git*

*git remote -v (optional)*

*git push -u origin main*

create .gitignore file in GitHub webpage – create new file and select python

*git pull* (to merge changes done in GitHub webpage)

**b) setup.py**

c) requirements.txt

d) src folder and build the packages

*pip install -r requirements.txt*

**Tutorial 2- Project Structure, Logging And Exception Handling**

Create components folder in src folder.

Create files in components folder

Create pipeline folder – training and prediction pipeline