**Deep Learning Project Chronic Kidney Classification**

Project flow

1. Project templet creation
2. Project setup and requirement installation
3. Logging, Utils and exception Module
4. Project workflow
5. Notebook Experiment
6. Modular code implementation
7. Training pipeline
8. MLflow (MlOPs tool) – For experiment tracking and model registration
9. DVC (MLOps tool) – for pipeline tracking and implementation
   1. DVC : Data version control
10. Prediction pipeline and User app creation
11. Docker
12. Final CI/CD Development

Tack:

Build deep learning base Image classification model which able to classify, CT scan image of kidney and identify kidney with tumour and Normal kidney.

Dataset:

I am using dataset of Kidney CT Scan image, which is identified and classified as kidney with tumour and Normal kidney with respective to image.

For example:



Normal kidney

A close-up of an x-ray of a person's body

Description automatically generated

Tumour Kidney

Download Database:

<https://drive.google.com/file/d/1BIiJfOdei5xm9XMw_Gq9Bdq8uQWFtSPC/view?usp=sharing>

step 1.

Templet.py file created, which help to develop required file and folder for project.

Installing git in project env.: *conda install -c anaconda git*