PROJECT FLOW

Date	**11 November 2022**
Team ID	**PNT2022TMID50713**
Project Name	**A Gesture-based Tool for Sterile Browsing of Radiology Images**

Project Flow:

- User interacts with the UI (User Interface) to upload the images as input.
- Depending on the different gesture inputs different operations applied to the input image.
- Once model analyses the gestures, the prediction with operation applied on image is showcased on the UI.

To accomplish this, we have to complete all the activities and tasks given below:

- Data Collection.
  - Collect the dataset or create the dataset
- Data Pre processing
  - Import the ImageDataGenerator library
  - Configure ImageDataGenerator class
  - Apply ImageDataGenerator functionality to Trainset and Testset
- Model Building
  - Import the model building Libraries
  - Initializing the model
  - Adding Input Layer
  - Adding Hidden Layer
  - Adding Output Layer
  - Configure the Learning Process
  - Training and testing the model
  - Save the Model
- Application Building
  - Create an HTML file
  - Build Python Code

Following software, concepts and packages are used in this project

- Anaconda navigator

- Python packages:
    - Open anaconda prompt as administrator
    - Type “pip install TensorFlow” (make sure you are working on python 64bit)
    - Type “pip install opencv-python”
    - Type “pip install flask”