### Indian Institute of Information Technology Allahabad

### B.tech sem-5

### Image and Video Processing Project

Explainable Machine Learning for Image Processing Domain: Breast Cancer

**Group-12**

**Group members:**

Shivansh Gupta IIT2019107

Rahul Kumar IIT2019109

Aditya Singh IIT2019111

Sarthak IIT2019114

Saloni IIT2019128

Sanyam IIT2019129

Khushi Gupta IIT2019141

Course Instructor :

Professor Anupam Agarwal

GC Jana

**Readme File**

* System Requirement :-
  + Proper Internet Connection
  + Any Operating System(like ubuntu,windows or MacOS)
  + Web browser like Google Chrome,Firefox
  + Google colab Id
* Steps :-
  + Download the data set from the below link :- [data.zip](https://drive.google.com/file/d/1HYJD8v5_Wwmmsejs_1xoHrq_OStxWjl8/view)
  + then upload the data set in your google drive.
  + Then download the code file from here :- [Breast\_Cancer\_Ivp.ipynb](https://colab.research.google.com/drive/14sBYwbpImyvm6Bma_fLILadChfYRejkq?usp=sharing#scrollTo=2doYxuIJ3UJ_) in .ipynb format (or make a copy of this colab file).
  + Upload the code in your colab account.
  + Then import your google drive in this colab notebook by entering the authorization code
  + Then from runtime navbar choose run all option or press (*Ctrl + F9*)
  + Input includes dataset which has 198,738 IDC negative and 78,786 IDC positive of 50x50x3 dimensions
  + The output is on your screen.