

## Some info about domains:

The domains that we selected are

- 1) Computer vision
- 2) Digital image processing
- 3) Machine learning
- 4) Software development

### **1) Difference between computer vision and digital image processing:**

Computer vision is an interdisciplinary field that deals with how computers can gain high-level understanding from digital images or videos. The main aim is to understand and automate tasks that the human visual system can do.

Image processing is mainly focused on processing the raw input images to enhance them or preparing them to do other tasks

Computer vision is focused on extracting information from the input images or videos to have a proper understanding of them to predict the visual input like human brain.

Image processing uses methods like Anisotropic diffusion, Hidden Markov models, Independent component analysis, Different Filtering etc.

Image processing is one of the methods that is used for computer vision along with other Machine learning techniques, CNN etc.

Image Processing is a subset of Computer Vision.

Computer Vision is a superset of Image Processing.

- 2) Machine learning is the domain used in computer vision.
- 3) Software development is needed as we have to have a software that can be used to interface the face recognition algorithm to be used in the remote system.