**FREQUENTLY ASKED QUESTIONS**

* **What is CNN's purpose?**

A Convolutional neural network (**CNN**) is a neural network that has one or more convolutional layers and are used mainly for image processing, classification, segmentation and also for other auto correlated data. A convolution is essentially sliding a filter over the input.

* **What is the scope of the project?**

In this project, our aim is to classify the different medical images. Here, mainly we are classifying the brain and eye medical images from the considered dataset using GoogleNet.

* **What is machine learning and deep Learning techniques?**

The main difference between deep learning and machine learning is due to the way data is presented in the system. Machine learning algorithms almost always require structured data, while deep learning networks rely on layers of ANN (artificial neural networks). Data decides everything.

* **Explain about CNN architecture**

CNNs are a class of Deep Neural Networks that can recognize and classify particular features from images and are widely used for analyzing visual images. Their applications range from image and video recognition, image classification, medical image analysis, computer vision and natural language processing.

* **Explain about GoogleNet architecture**

Google Net (or Inception V1) was proposed by research at Google (with the collaboration of various universities) in 2014 in the research paper titled “Going Deeper with Convolutions”. This architecture was the winner at the ILSVRC 2014 image classification challenge. It has provided a significant decrease in error rate as compared to previous winners AlexNet (Winner of ILSVRC 2012) and ZF-Net (Winner of ILSVRC 2013) and significantly less error rate than VGG (2014 runner up). This architecture uses techniques such as 1×1 convolutions in the middle of the architecture and global average pooling.

* **Why we using keras as a framework?**

Keras is an API designed for human beings, not machines. Keras follows best practices for reducing cognitive load: it offers consistent & simple APIs, it minimizes the number of user actions required for common use cases, and it provides clear and actionable feedback upon user error.

* **Why we using TensorFlow as a framework?**

TensorFlow enables **you** to build dataflow graphs and structures to define how data moves through a graph by taking inputs as a multi-dimensional array called Tensor. It allows **you** to construct a flowchart of operations that can be performed on these inputs, which goes at one end and comes at the other end as output.

* **Working of OpenCV?**

It stands for Open Source Computer Vision Library (http://opencv.org). OpenCV is used to develop real-time computer vision applications. It is capable of processing images and videos to identify objects, faces, or even handwriting.