**Open ended questions:**

1. How does the image resolution affect in image classification, object detection?

Ans: Lower resolution of an image will hamper the classification model performance and give a poorer accuracy. Noise and blurs in an image may also lead to the same scenario of getting lower accurate results. So, we may say increasing the image resolution will help in getting better accuracy.

1. How to choose machine learning framework?

Ans: The goal we have in mind should direct us to the machine learning framework we’ll need. So, what end product we need and the framework most compatible with that end product in terms of ease of programming and working speed should be chosen.

1. When we know we have MVP in ML?

Ans: When we have a well working minimum viable mode, minimum viable platform for deployment and ready to work is when we have an MVP. By minimum I mean when the data is not abundant, we make a model on it and launch it into production and make viable changes in accordance with the collected data.

1. Explain any well-known architecture to deploy ML model

Ans: ML system architecture refers to the way in which the software components that makeup system is arranged and the interaction between them in achieving a predefined goal.

When designing an ML system architecture, the following should be borne in mind.

* **Modularity**
* **Reproducibility**
* **Scalability**
* **Extensibility**
* **Testing**
* **Automation**

We use many times flask to deploy the model. It’s project structure contain

* Model.py
* App.py
* Request.py
* HTML/CSS

And a setup of environment and tools such as Scikit, NumPy, etc

1. How do we choose which algorithm is relevant to our task?

Ans: The main deciding factors are as follows:

* Training data size
* Time taken to train
* Number of features
* Supervised/Unsupervised
* Accuracy of the output coming

Based on the above features w.r.t. the task we decide the most optimum model.