Software Architectures Project

Machine Learning on Serverless Framework

# Description

**Serverless Framework**

AWS(Amazon Web Services) Lambda

**Machine Learning Frameworks**

1. Tensorflow 2.X
2. Pytorch (Latest)
3. Caffe

**Machine Learning Models**

1. Resnet-50
2. Inception V2
3. Mobilenet V2

# Response Time Data

| ML Model | Average Server Response Time (s) | | | Average Model Compute Time (s) | | |
| --- | --- | --- | --- | --- | --- | --- |
| **ML Frameworks** | | | **ML Frameworks** | | |
| Tensorflow | Pytorch | Caffe | Tensorflow | Pytorch | Caffe |
| Resnet-50 | 41.141 | 20.81 |  | 20.33 | 15.25 |  |
| Inception-V2 | 33.68 | 12.47 | 4.76 | 16.53 | 7.42 | 2.91 |
| Mobilenet-V2 | 10.06 | 4.11 | 2.15 | 7.93 | 3.71 | 1.42 |