Project Development Phase Model Performance Test

| Date | 1 NOvember 2023 |
|---------------|---|
| Team ID | Team- 592967 |
| Project Name | Project - potato disease classification |
| Maximum Marks | 10 Marks |

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

| S.No. | Parameter | Values | Screenshot |
|-------|-------------------|--|---|
| 1. | Metrics | Regression Model: | συτίττο- στισλί τισε, Του.]) |
| | | MAE - , MSE - , RMSE - , R2 score - | In [97]: np.array([True,False,True]).mean() |
| | | Classification Model: | Out[97]: 0.6666666666666 |
| | | Confusion Matrix - , Accuray Score- & | In [115- accuracy = comparison_vector.mean() accuracy |
| | | Classification Report - | Out[115_ 0.99609375 |
| | | | This shows that accuracy of our tflite model is around 99% which is considered to be pretty good. Now we can deploy this model to GCP (Google Cloud Platform) |
| 2. | Tune the Model | Hyperparameter Tuning - Validation Method - | In [125- for image, label in test_ds.unbatch().take(\$): interpreter.set_tensor(input_index, [Image.numpy().astype(np.float32)]) interpreter invoke() output = interpreter.get_tensor(output_index) |
| | | | <pre>In [iil. predicted_labels = [] actual_labels = [] for image, label in test_ds.unbatch(): interpreter.set_tensor(input_index, [image]) interpreter.invoke() output = interpreter.get_tensor(output_index) predicted_labels.append(np.argmax(output[e])) actual_labels.append(label.nuspy())</pre> |
| | | | In [116_ predicted_labels[:10] |
| | | | Out[116. [0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 1] In [117- actual_labels[:10] |
| | | | Out[117 [0, 1, 1, 0, 0, 0, 0, 0, 1] |