**Week-3: Image classification**

**Dinesh Ram Veerappan Kosal**

**Mavin Michael Rodrigues**

**Nirav Ishwarbhai Acharya**

**Yain Khan**

**MGT-661**

**June 10,2024**

**Dr. Itauma**

**Introduction**

In this report we are working on Azure Machine Learning. Image classification, is the task we use to carry out machine learning using images.

A computer screen shot of a computer screen

Description automatically generated

The above shows the pipeline for the dataset “CARDS’ which consists of images of each set of suits of playing cards namely ‘Spades’, ‘Clubs’, ‘Hearts’ and ‘Diamonds’.

The image classification option under designer of azure machine learning workshop produces a prebuilt pipeline which can be used to make our own pipeline for our own dataset.

First upload the dataset using data option in the menu bar on the left, then choose designer and under designer use image classification option and a prebuilt pipeline will be produced. In the pipeline use the dataset uploaded and selected from the data option on the left.

Once the pipeline is modified and all adjustments are done, choose configure and submit on top right option in which we can set the parameters and compute clusters for the pipeline and submit.

Once the job is submitted, go to jobs and the process can be seen running. After completion of the process, we get a completed notification.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

The above and below images show the iterations carried out for image classification.

A computer screen shot of a computer screen

Description automatically generated

**Conclusion:**

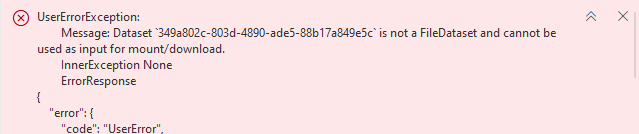
The image classification assignment was carried out with different types of datasets from Kaggle, GitHub, etc.,. All the sources provided different approaches and the process was tedious.

Since the team explored different iterations and trials all turned out to be unsuccessful.

The images for the errors are submitted above.

**Error Obtained:**

UserErrorException: Message: Dataset `349a802c-803d-4890-ade5-88b17a849e5c` is not a FileDataset and cannot be used as input for mount/download. InnerException None ErrorResponse { "error": { "code": "UserError", "message": "Dataset `349a802c-803d-4890-ade5-88b17a849e5c` is not a FileDataset and cannot be used as input for mount/download." } }

A close-up of a number

Description automatically generated