**Report**

**Motivation**

My motivation has been an opportunity to gain an internship and job offer at an esteemed company where I will be assured of my future, get a good compensation, growth environment and be respected.

**Abstract**

I tried to use two types of models and tried tuning them for different parameters. First one was a simple one, sequential model and second I tried transferring the knowledge of first second layers together with ongoing layers to last layer, i.e with functional api in tensorflow.

**Introduction**

I tried functional api model since I thought that the model might benefit from refreshing of memory.

**Data Analysis/Preprocessing**

The analysis necessary was that some images were of different sizes so they needed to be resized.

**Model Architecture**

Functional API keras + ANNs did the job.

**Exprimental setting**

I used kaggle as a platform (private mode not made the data public) which helped me by providing free gpu computation.

**Results**

The functional api model as it was thought performed much better.

**Key findings**

Memory refreshing indeed helps.

**Future works**

In future data augmentation could be tried and hyperparameters can be tuned.