**Retraining Inception Model**

**The inception model from Google can be retrained and given the data, it can relearn to identify anything.**

This model has been retrained to identify an Airplane Vs. Helicopter

**Prime the environment using the following:**

IMAGE\_SIZE=224

ARCHITECTURE="mobilenet\_0.50\_${IMAGE\_SIZE}"

**Retrain the model using the following:**

python -m scripts.retrain \

--bottleneck\_dir=tf\_files/bottlenecks \

--how\_many\_training\_steps=500 \

--model\_dir=tf\_files/models/ \

--summaries\_dir=tf\_files/training\_summaries/"${ARCHITECTURE}" \

--output\_graph=tf\_files/retrained\_graph.pb \

--output\_labels=tf\_files/retrained\_labels.txt \

--architecture="${ARCHITECTURE}" \

--image\_dir=tf\_files/

**Predict using newly trained model, using the following:**

python -m scripts.label\_image \

--graph=tf\_files/retrained\_graph.pb \

--image=airplane1.jpg