**What is transfer learning?**

Transfer learning is the process of saving the knowledge and information gained from training one model and using it to solve a different, but related problem. For example, the knowledge gained while training a tiger can be used even to classify leopards. There is a lot of research going on in this field and is one of the most efficient ways of solving problems. Transfer learning has the advantage of decreasing the training time for a learning model and can result in lower generalization error.

**What is VGG?**

Visual geometry group or VGG is a deep convolutional neural network that is most commonly used for large scale image recognition. This model was proposed to reduce the number of parameters in a convolutional neural network with improved training time.

**Data pre-processing**

* Import the required libraries
* load the dataset from keras
* Split data into train and test set
* convert the target into categorical values
* Apply data augmentation techniques on the data
* Load the pretrained model

**Building the model**

* Build a custom model and add the pretrained model with it
* Train the transfer model
* Make predictions