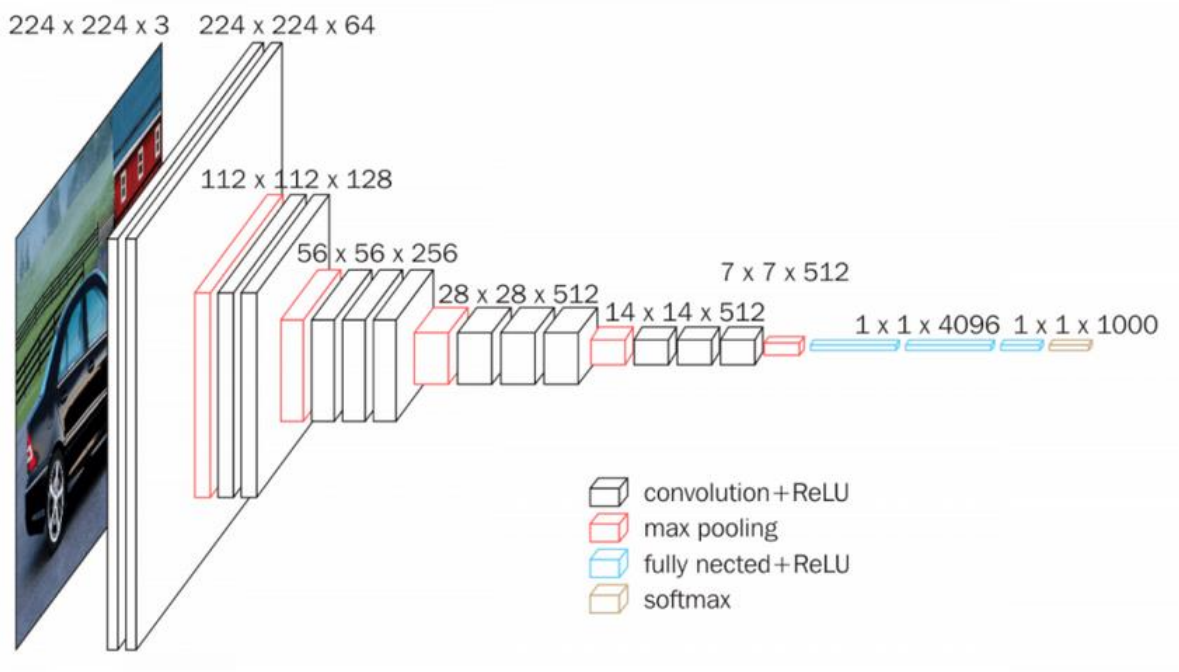
MODELLING PART-1

(ARTIFICIAL INTELLIGENT LOGISTIC MANAGEMENT SYSTEM)

MODEL STRUCTURE:

Structure of our model will consist of different layers like data labelling, data preprocessing, testing and training and output.



For classification of the image we will make use of VGG-16 model, where we will pre-process our data, train and test our data. This is the architecture of our image processing model.

SOFTWARE TOOLS:

For this project we will be using jupyter notebook as our IDE. MySQL will be used as our database. Android SDK manager will be used to visualize the front end of the model. Visual studio will be used to code the front end. Label imager was used to label the images in the database.

CALIBRATION OF MODEL TECHNIQUES:

We'll apply various types of machine learning algorithms and test our model's accuracy. We will try to improve accuracy of our model by adding parameters. We will find out which features are the most impacting on the accuracy of the model. We will use the technique like permutation feature importance which can help us to identify salient features in data which will help in explaining the model. We will use the output of a feature selection method to reduce the number of noisy features going into the training process.