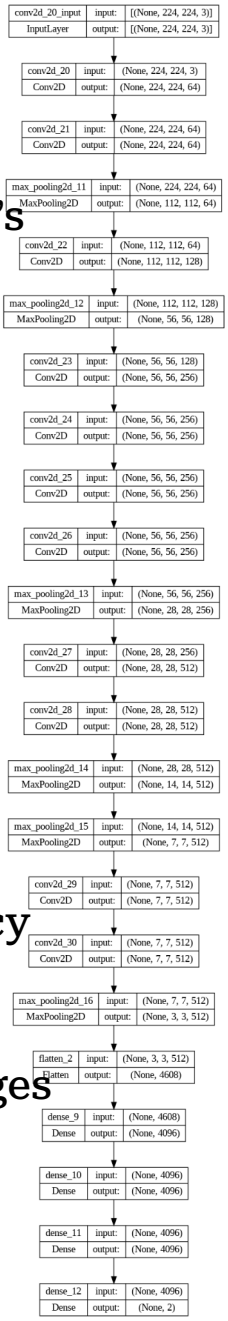
REPORT



- **DATA COLLECTION :**
  - Collected Data From Kaggle Resume Data for Resume Image's and For Non Resume Image's from Google ,Applications etc
  - Total no .of image*s in dataset are 138*
- **DATA Prepocesing :**
  - *For Data preprocessing keras.preprocessing.image Image generator is used*
- **Classification of Resume Classification**
  - Binary Classification
  - CLASS : 2
  - OPTIMIZER : ADAM
  - LOSS FUNCTION : binary_crossentropy
  - METRIC : ACCURACY
- **MODEL SELECTION:**
  - First I have Made Custom Model then I archived 57.8 accuracy
  - Later On I have Used VGG16 , MobileNet then I archived 68.2 accuracy
  - By Tuning VGG16 I have Archived 81.62 Accuracy ,The Changes made
  - By Changing learning Rate , LossFunction ,Batch_Size .. ,We have Reached Optimium Accuracy

MODEL

```
model = Sequential()
model.add(Conv2D(input_shape=(224,224,3),filters=64,kernel_size=(3,3),padding="same", activation="relu"))
model.add(Conv2D(filters=64,kernel_size=(3,3),padding="same", activation="relu"))
model.add(MaxPool2D(pool_size=(2,2),strides=(2,2)))
model.add(Conv2D(filters=128, kernel_size=(3,3), padding="same", activation="relu"))

model.add(MaxPool2D(pool_size=(2,2),strides=(2,2)))
model.add(Conv2D(filters=256, kernel_size=(3,3), padding="same", activation="relu"))
model.add(Conv2D(filters=256, kernel_size=(3,3), padding="same", activation="relu"))

model.add(MaxPool2D(pool_size=(2,2),strides=(2,2)))
model.add(Conv2D(filters=512, kernel_size=(3,3), padding="same", activation="relu"))
model.add(Conv2D(filters=512, kernel_size=(3,3), padding="same", activation="relu"))

model.add(MaxPool2D(pool_size=(2,2),strides=(2,2)))
model.add(Conv2D(filters=512, kernel_size=(3,3), padding="same", activation="relu"))
model.add(Conv2D(filters=512, kernel_size=(3,3), padding="same", activation="relu"))

model.add(MaxPool2D(pool_size=(2,2),strides=(2,2)))
```

```
model.add(Flatten())
model.add(Dense(units=4096,activation="relu"))
model.add(Dense(units=4096,activation="relu"))
model.add(Dense(units=4096,activation="relu"))

model.add(Dense(units=2, activation="softmax"))
```

Results :

Loss Function	Optimizer	Learning Rate	Batch Size	Epoch	Accuracy
Categorical Cross Entropy	Adam	0.00001	16	50	71.88
Categorical Cross Entropy	Adam	0.0001	8	50	62.5
Categorical Cross Entropy	Adam	0.000001	8	50	69.08
Categorical Cross Entropy	Adam	0.000001	16	50	70.65
BinaryCross Entropy	Adam	0.00001	16	50	59.88
BinaryCross Entropy	Adam	0.0001	8	50	81.25
BinaryCross Entropy	Adam	0.000001	8	50	77.78