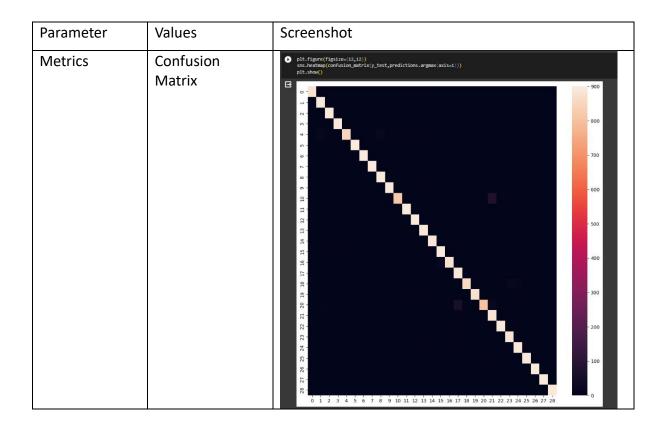
ASL – Alphabet Image Recognition

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Model Performance Testing





```
Tune the
                          Hyper Parameter
                                                         model = Sequential()
Model
                          Tuning
                                                             model.add(Conv2D(32, (5, 5), input_shape=(64, 64, 3)))
model.add(Activation('relu'))
                                                             model.add(MaxPooling2D((2, 2)))
                                                             model.add(Conv2D(64, (3, 3)))
                                                              model.add(MaxPooling2D((2, 2)))
                                                             model.add(Conv2D(64, (3, 3)))
                                                             model.add(Activation('relu'))
                                                             model.add(MaxPooling2D((2, 2)))
                                                             model.add(Flatten())
                                                             model.add(Dense(128, activation='relu'))
                                                             model.add(Dense(29, activation='softmax'))
                                                             model.summary()
                                                         Model: "sequential"
                                                                                         Output Shape
                                                             Layer (type)
                                                                                                                     Param #
                                                             conv2d (Conv2D)
                                                                                         (None, 60, 60, 32)
                                                              max_pooling2d (MaxPooling2 (None, 30, 30, 32)
D)
                                                              activation_1 (Activation) (None, 28, 28, 64)
                                                              max_pooling2d_1 (MaxPoolin (None, 14, 14, 64) g2D)
                                                                                                                     36928
                                                              max_pooling2d_2 (MaxPoolin (None, 6, 6, 64)
                                                              flatten (Flatten)
                                                              dense (Dense)
                                                                                                                    295040
                                                             Trainable params: 356637 (1.36 MB)
Non-trainable params: 0 (0.00 Byte)
```

Model Performance Test

S. No.	Parameter	Screenshot Values
1	Dashboard Design	These are some of the screenshots of the dashboard design of the website.
2	Data Responsiveness	The result of the image is made by the model in under 2-3 seconds with an accuracy of 98.87%.
3	Amount of Data to be rendered	DB2 Metrics: More than 50,000 images
4	Utilization of Data Filters	Data filters applied for hand shapes, gestures
5	Effective User Story	No of Scenes Added: 10
6	Descriptive Reports	No of Visualizations: 5