

# Image Classification of Tradition Indian Clothing

Kelly Butler



Lehenga (the skirt)  
with a blouse and  
a dupatta

Nehru jacket



Women's mojaris



Saree



Men's kurta

Data From Kaggle

91166 training images      7500 validation images

7500 test images

Class Label	Number of Images
Women's kurtas	11694
Sarees	10791
Blouses	9174
Leggings and Salwars	7787
Men's kurtas	6951
Dupattas	6587
Nehru jackets	6491
Lehenga	5753
Sarees	5210
Petticoats	4441
Dhoti pants	4145
Palazzos	3375
Women's mojaris	3228
Sherwanis	2992
Men's mojaris	2546

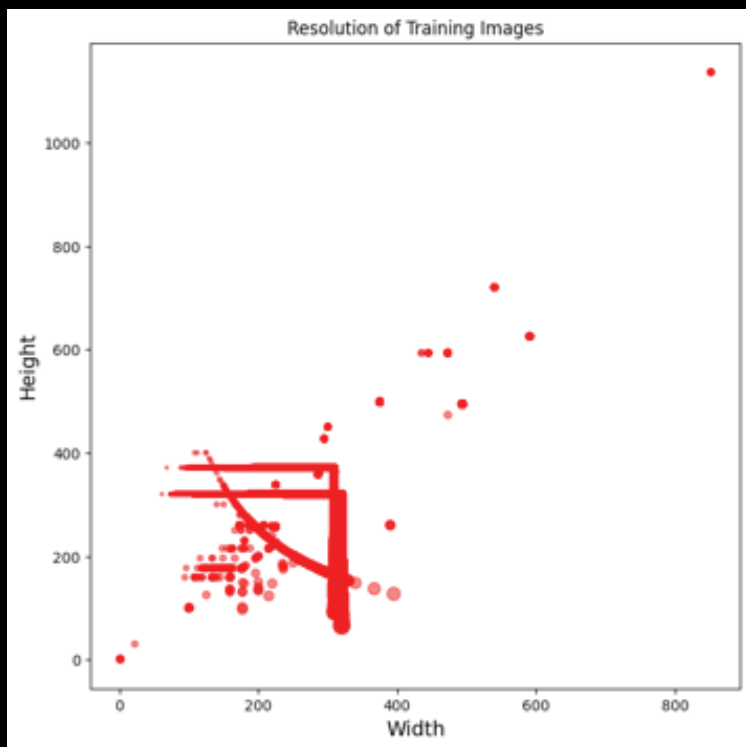


Figure 1. Image resolution in the training set.

Training data

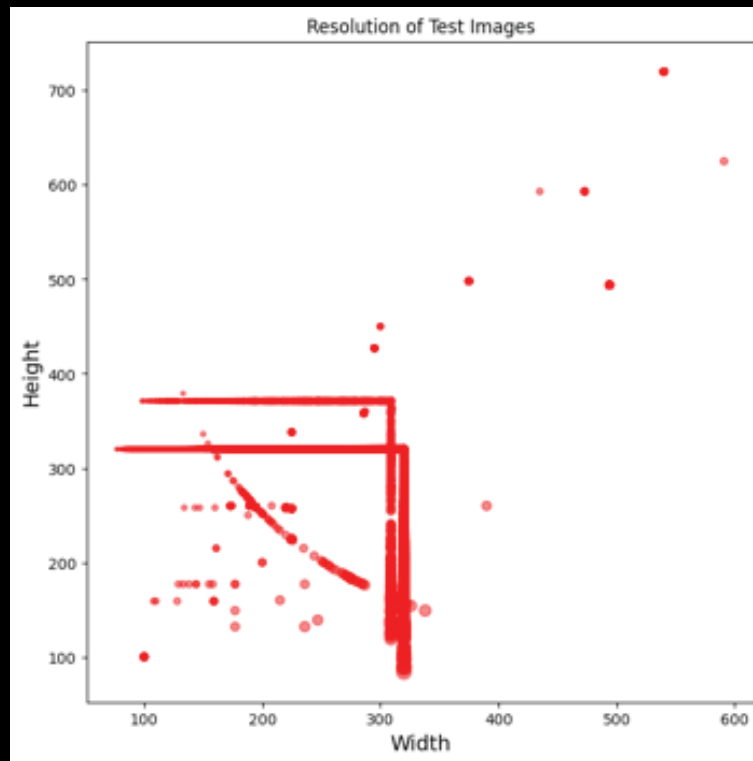


Figure 3. Image resolution in the test set.

Original test data

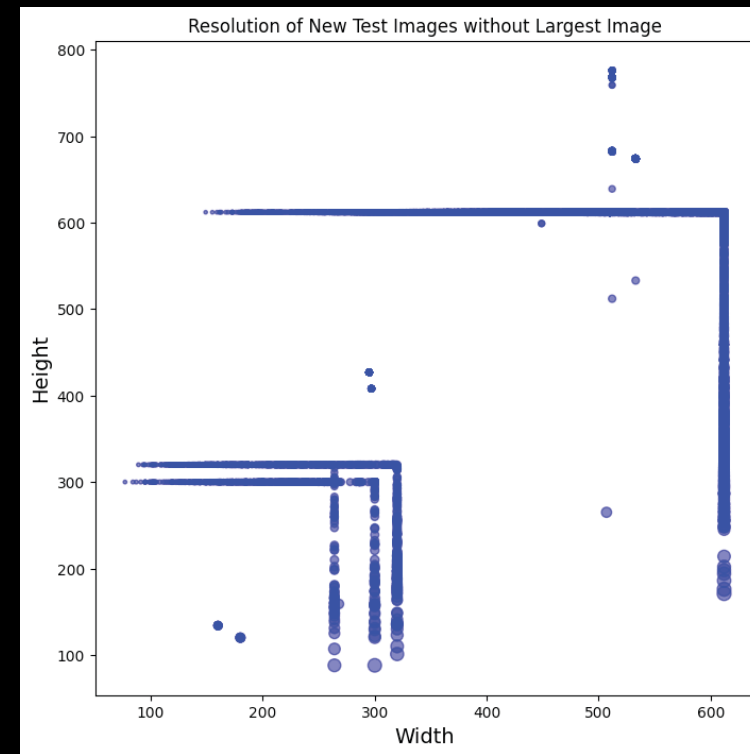
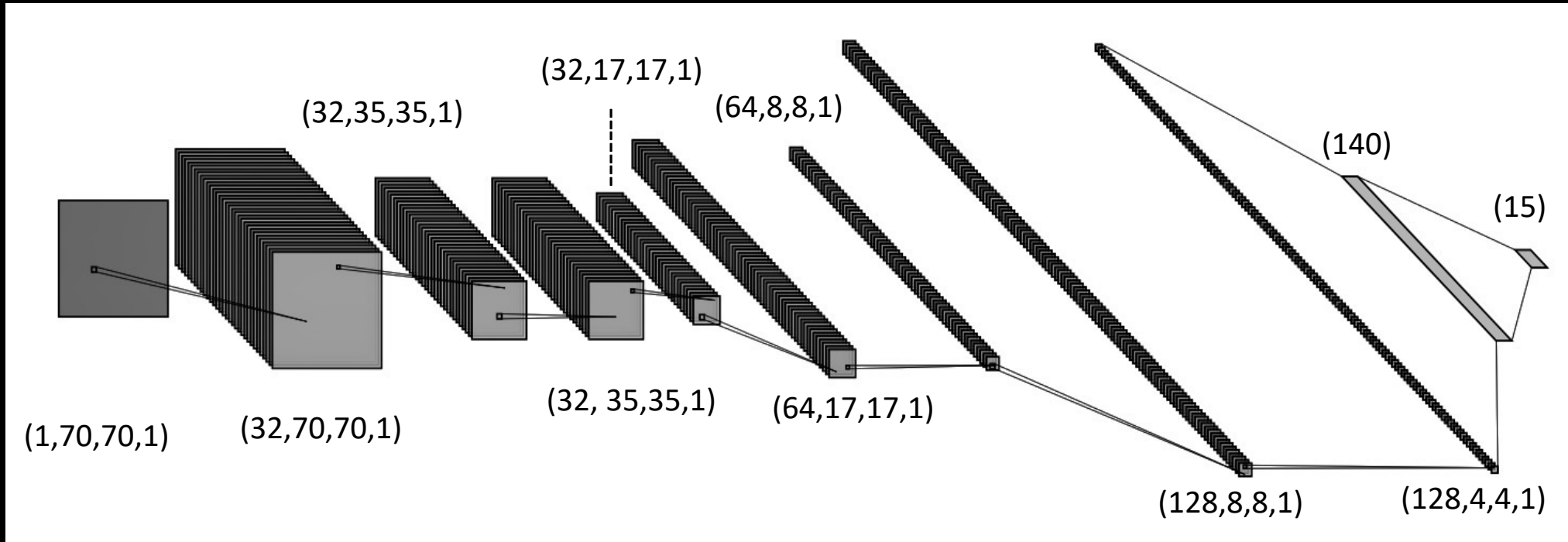


Figure 4. Image resolution in the new test set.

New test data

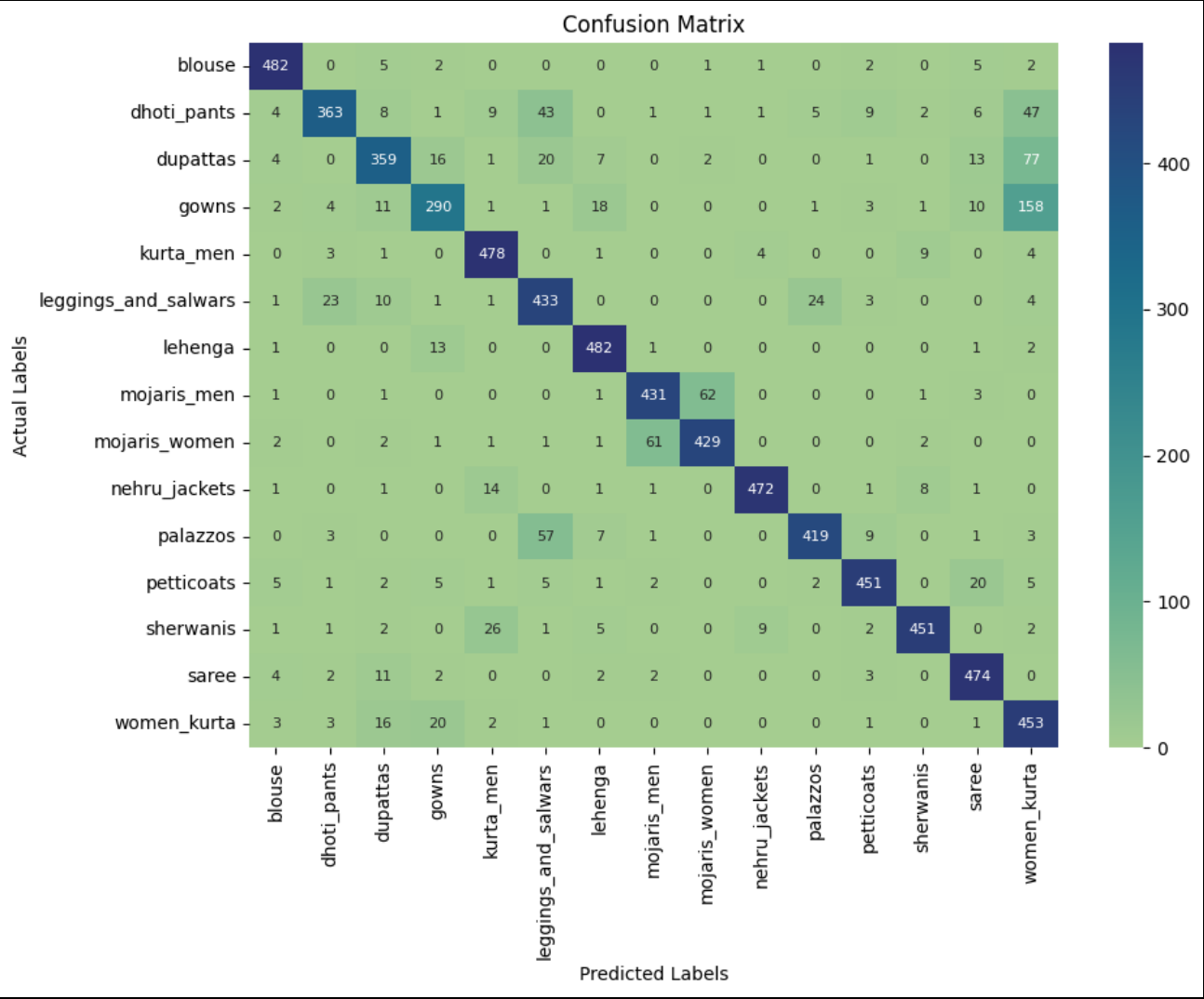
Image sizes

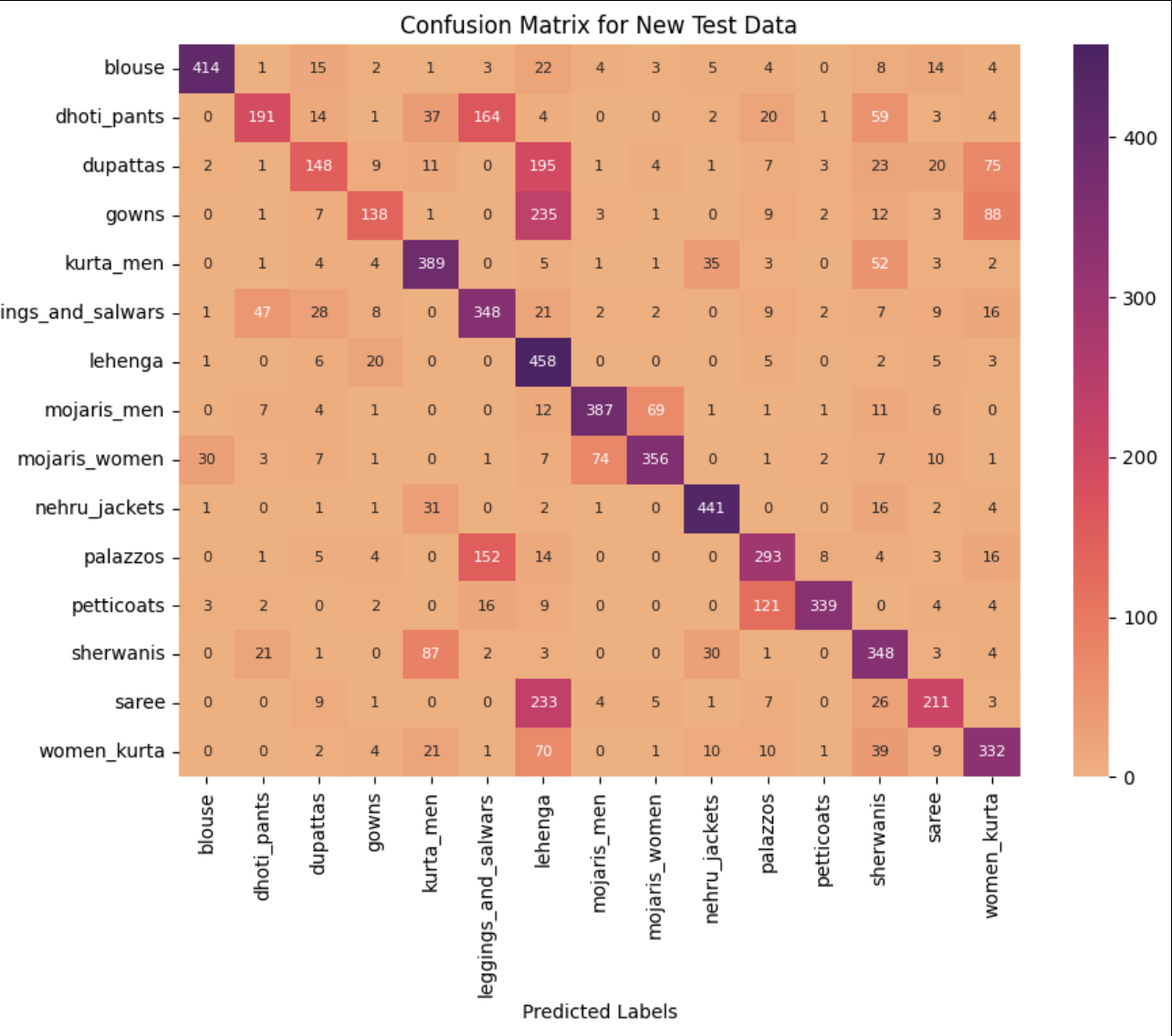


Keras Model

# Metrics

	Accuracy	Precision	Recall	F1 Score
Original test dataset	86.23 %	85.98 %	84.68 %	84.61 %
New test dataset	63.91 %	68.59 %	63.91 %	63.59 %





Training set:  
Women's kurta



Test set:  
Gown  
Predicted label:  
Women's kurta





Training set:  
Women's kurta



Test set: label Dupatta  
Predicted: Women's kurta



Women's  
kurta



Palazzos



Sherwani



Blouse



Gown



Dupatta



Salwar with  
dupatta



Dhoti pants

Men's  
mojaris

