Version 1 (250 classes x 80 images) Features obtained from Siggraph as .mat file S-HOG Features (20000 x 500) PCA + Naive Bayes (without SK-Learn)		Version 2.0 (15 classes x 80 images)		Version 2.1 (15 classes × 80 images)		
		Features manually obtained by Quantize	Features manually obtained by Quantized Descriptors and Visual Vocabulary Hard Histogram Features (1200 x 500) PCA + Naive Bayes		Features manually obtained by Soft Quantized Descriptors and Visual Vocabulary Soft Histogram Features (1200 × 500) PCA + Naive Bayes	
		Hard Histogram Feat				
		PCA + Naivo				
Training Accuracy	66.25%	Training Accuracy	92.40%	Training Accuracy	84.69%	
Testing Accuracy	55.00%	Testing Accuracy	58.75%	Testing Accuracy	64.17%	
PCA + Naive Bayes (With SK-Learn)		Kmeans (k=40) + S	Kmeans (k=40) + SVM (SK-Learn)		Kmeans (k=45) + SVM (SK-Learn)	
Training Accuracy	70.30%	Training Accuracy	100.00%	Training Accuracy	100.00%	
Testing Accuracy	45.00%	Testing Accuracy	78.75%	Testing Accuracy	81.25%	
PCA + KNN		Kmeans (k=10) + SVM	Kmeans (k=10) + SVM (without SK-Learn)		Kmeans (k=10) + SVM (without SK-Learn)	
Training Accuracy	61.02%	Training Accuracy	100.00%	Training Accuracy	100.00%	
Testing Accuracy	41.23%	Testing Accuracy	75.56%	Testing Accuracy	78.06%	
K-Means + KNN		PCA + KNN (k=3)		PCA + KNN (k=3)		
Training Accuracy	52.06%	Training Accuracy	73.33%	Training Accuracy	73.33%	
Testing Accuracy	32.17%	Testing Accuracy	51.67%	Testing Accuracy	51.67%	
Mean Shift Clustering + KNN		GMM +	GMM + KNN		GMM + KNN	
Training Accuracy	61.13%	Training Accuracy	100.00%	Training Accuracy	84.20%	
Testing Accuracy	41.03%	Testing Accuracy	65.00%	Testing Accuracy	61.05%	
SI	/M					
Training Accuracy	76.02%	Version 2.3 (15 classes x 80 images)		Version 2.4 (15 classes × 80 images)		
Testing Accuracy	51.68%	Features manually obtained by Edge Detection		Features manually obtained by Image Data Generation		
Mean Shift Clustering + SVM		Edge Detection Feat	Edge Detection Feature (1200 x 8100)		Image Data Generation (1200 x 16384)	
Training Accuracy	70.56%	ANN	N .	CNN	J	
Testing Accuracy	41.52%	Training Accuracy	100.00%	Training Accuracy	94.65%	
ANN		Testing Accuracy	80.03%	Testing Accuracy	73.67%	
Training Accuracy	77.01%	SVA	Λ	SVN	٨	
Testing Accuracy	51.23%	Training Accuracy	100.00%	Training Accuracy	100.00%	
GMM + KNN		Testing Accuracy	81.60%	Testing Accuracy	56.25%	
Training Accuracy	74.00%	K-Means	K-Means + SVM		PCA + SVM	
Testing Accuracy	52.01%	Training Accuracy	100.00%	Training Accuracy	100.00%	
		Testing Accuracy	84.16%	Testing Accuracy	46.25%	