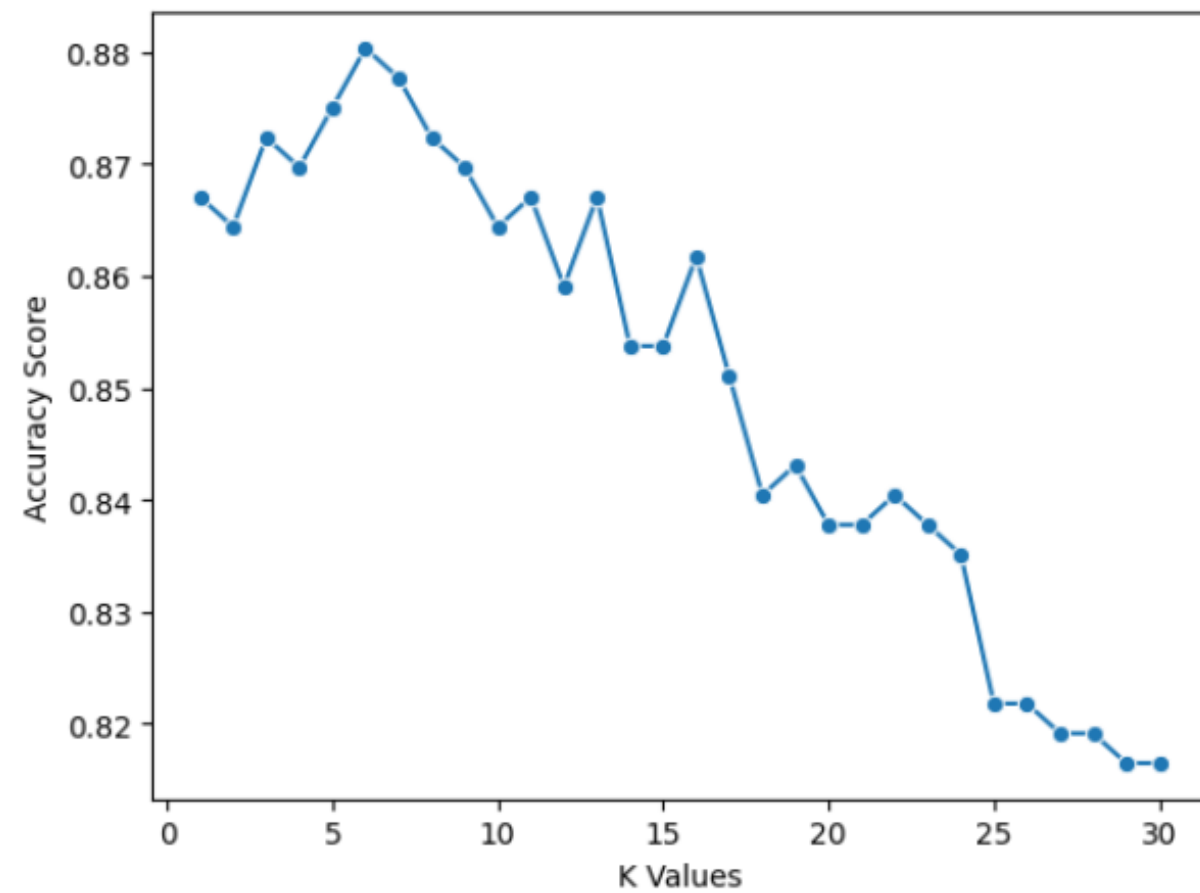
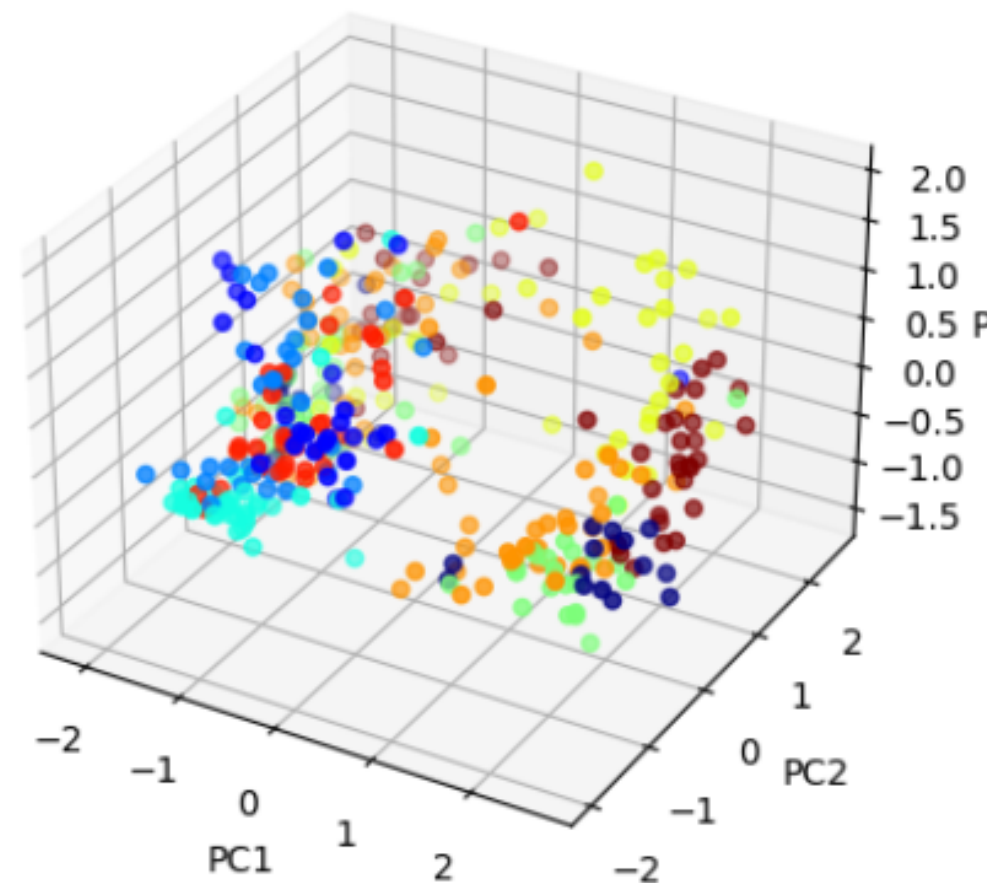
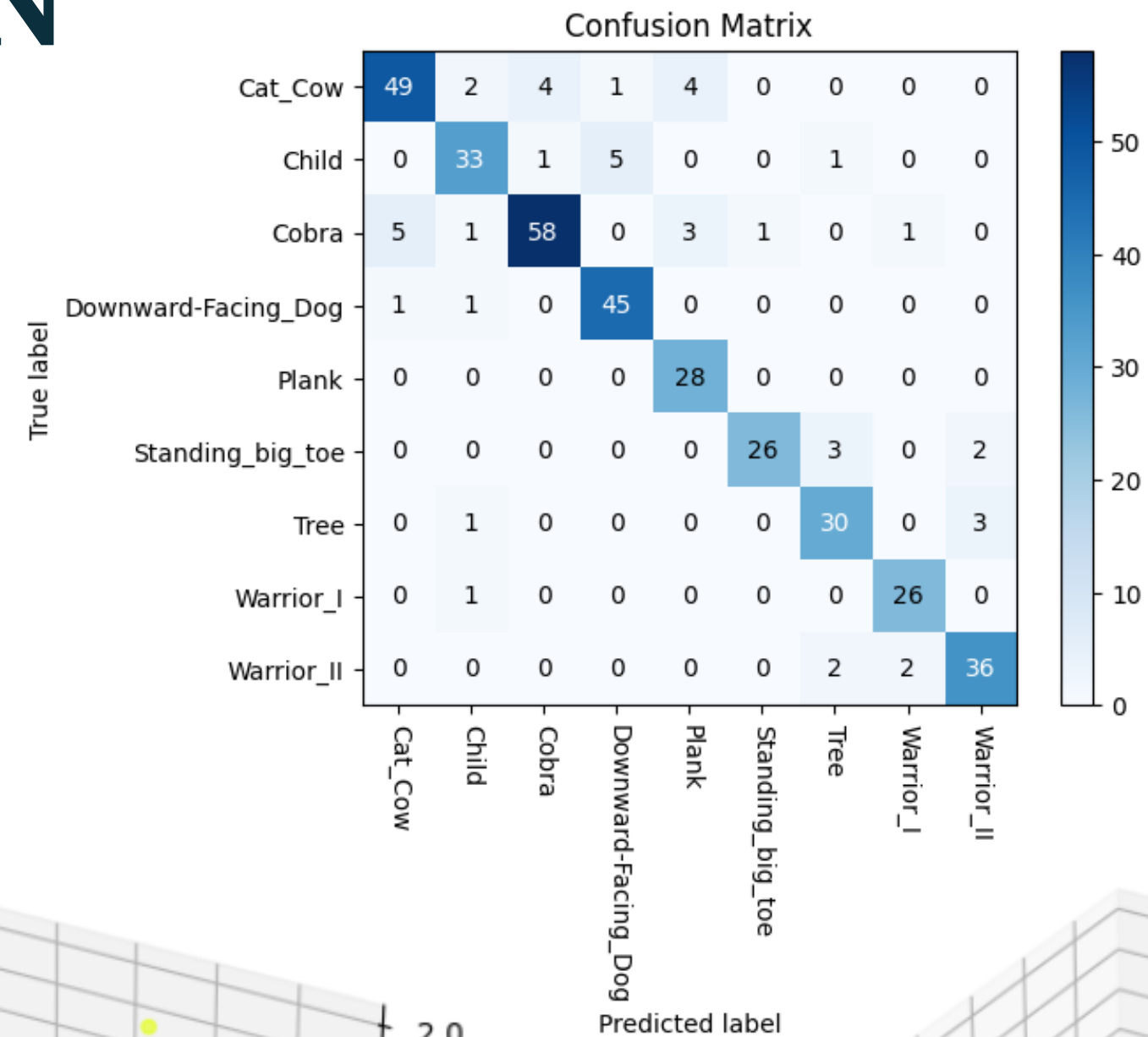


KNN

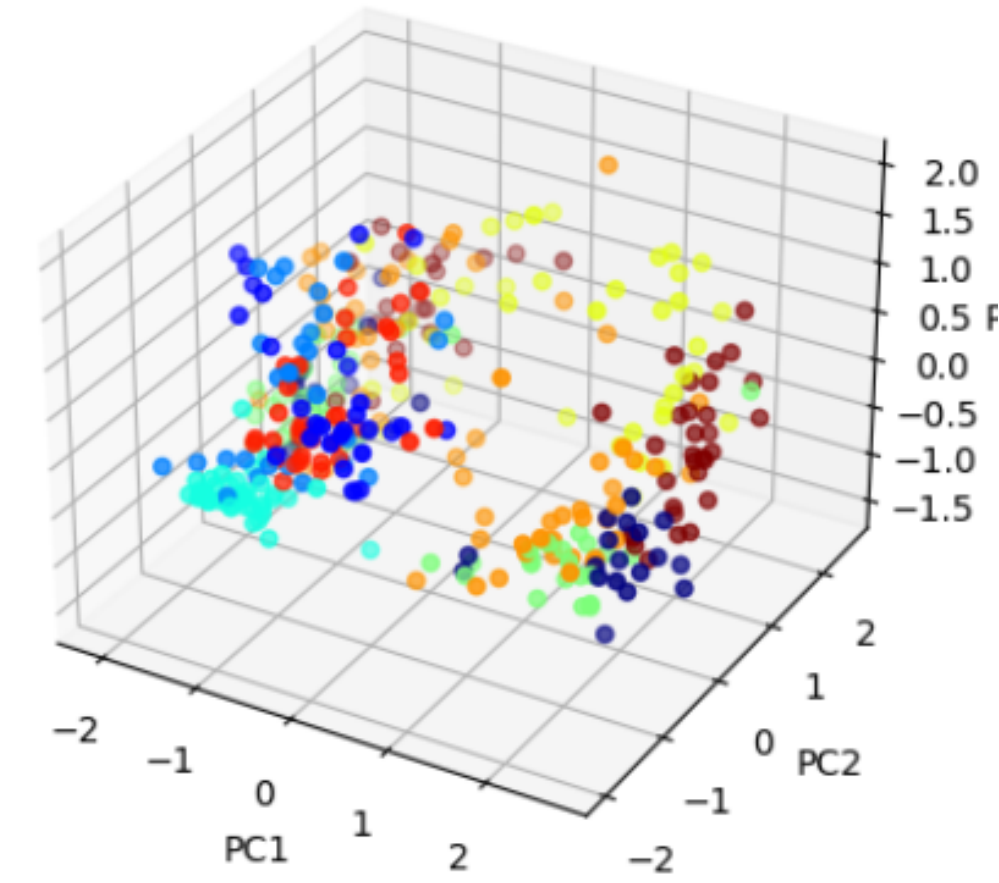


Accuracy score of KNN for different number of nearest neighbour

train_accuracy = 90.41%
test_accuracy = 88.03%

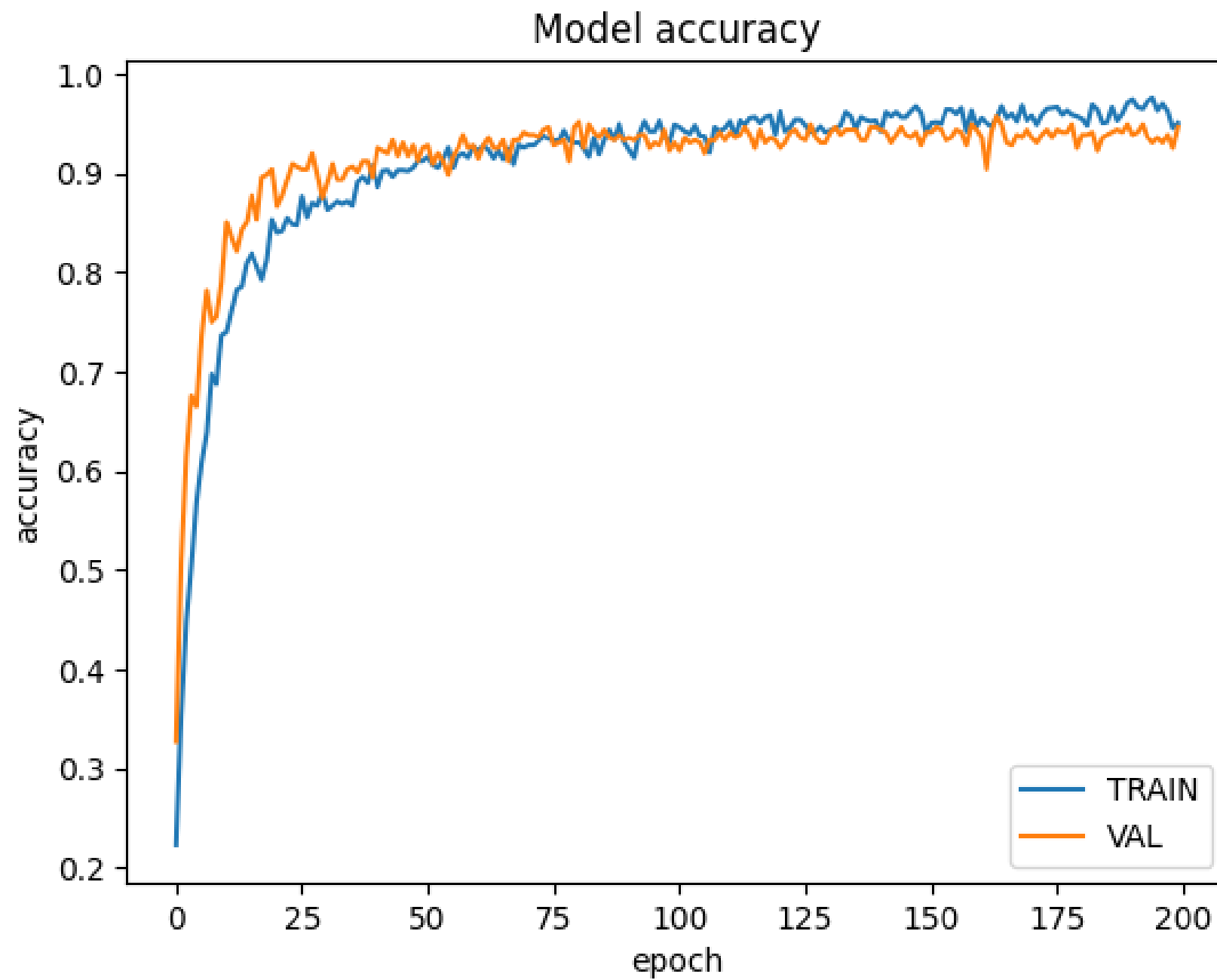


Original clusters



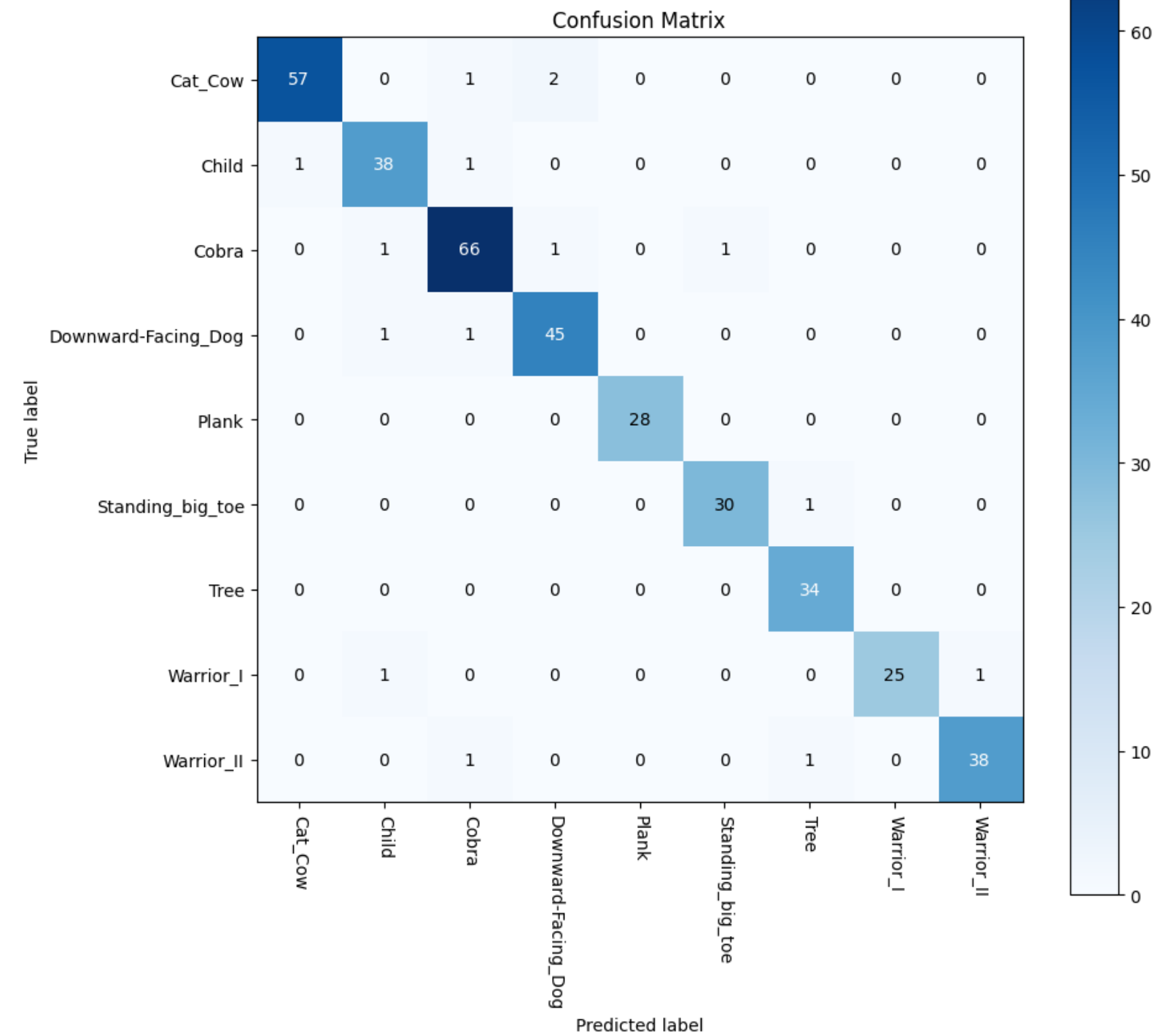
Predicted clusters

ANN

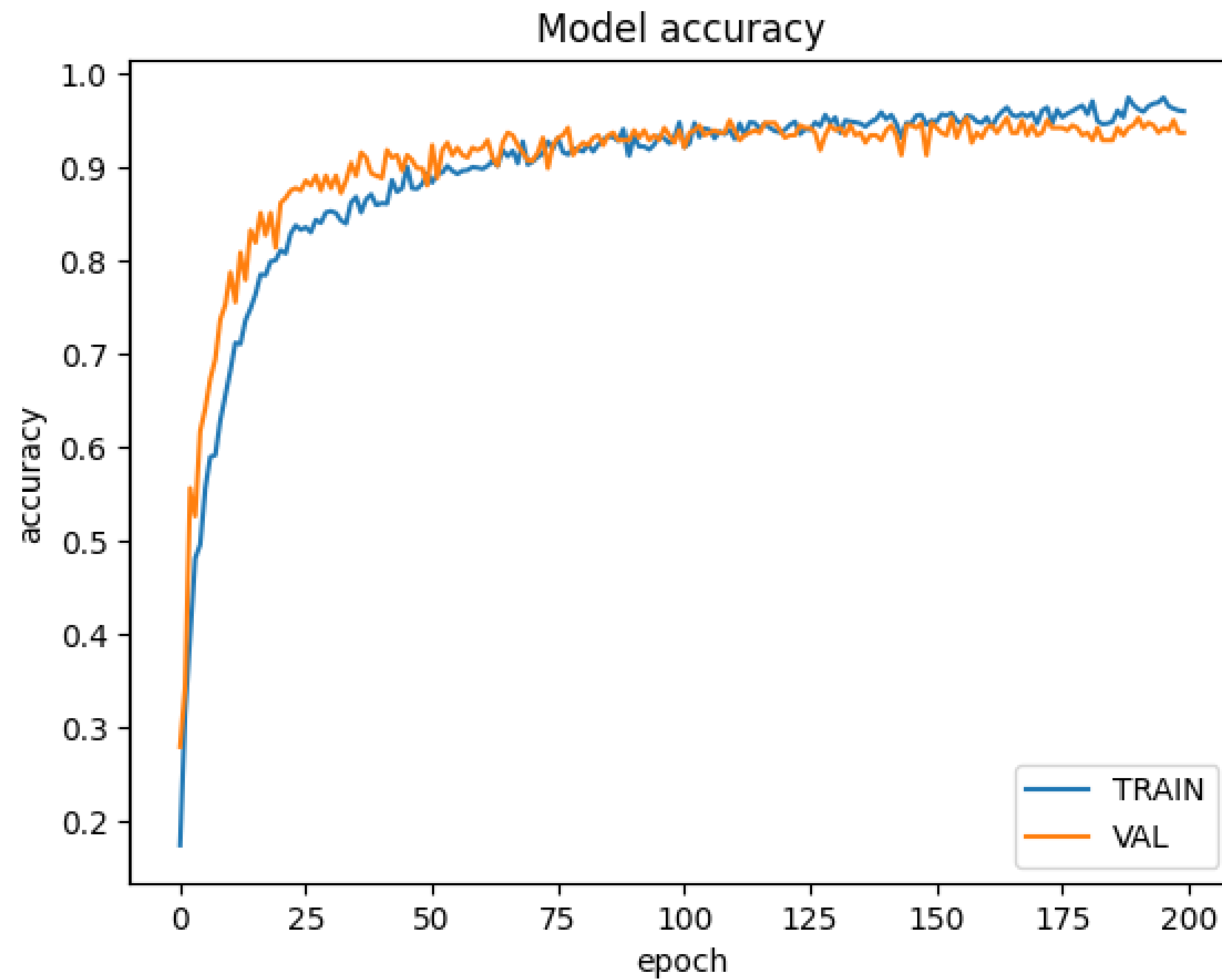


train_accuracy = 98.9%

val_accuracy = 95.7%

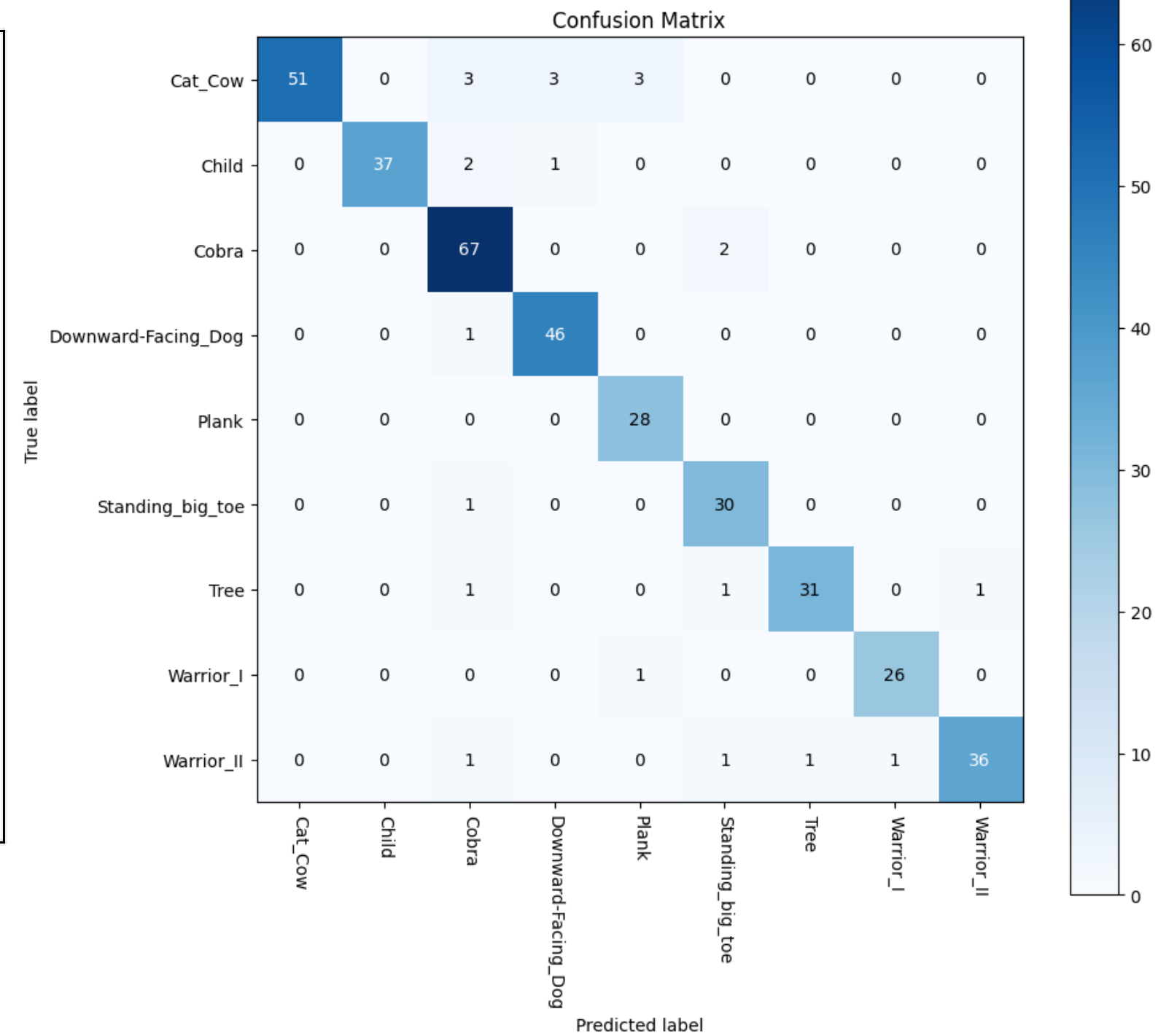


RNN



train_accuracy = 98.53%

val_accuracy = 93.62%





Results obtained on training ANN on different feature vectors



Feature vectors used	test_accuracy	f1_score	precision	recall
33 keypoints	95.74	95.75	95.90	95.74
Angles	92.28	92.38	92.74	92.28
Reduced (23) keypoints	93.88	93.84	94.06	93.88
Angles + 33 keypoints	92.02	92.13	92.49	92.02
33 Normalised keypoints	94.14	94.14	94.2	94.14