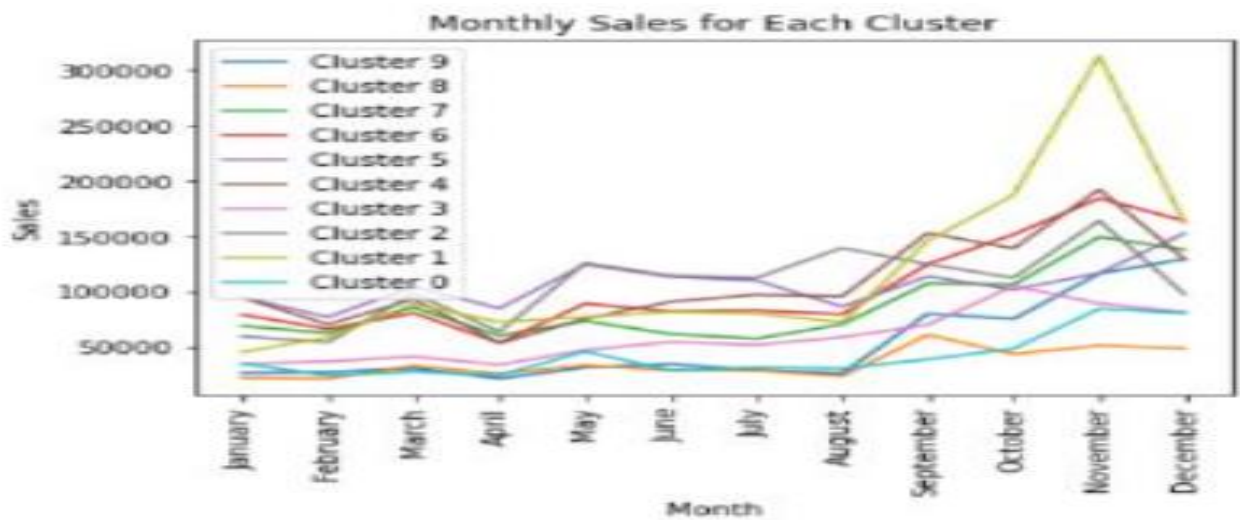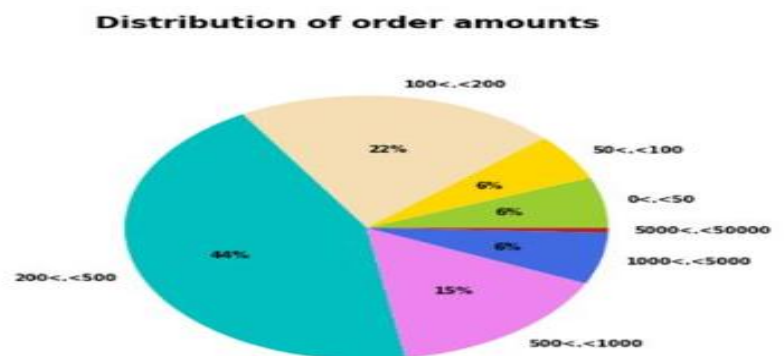# Result for Customer Categories Prediction Model using Word2Vec
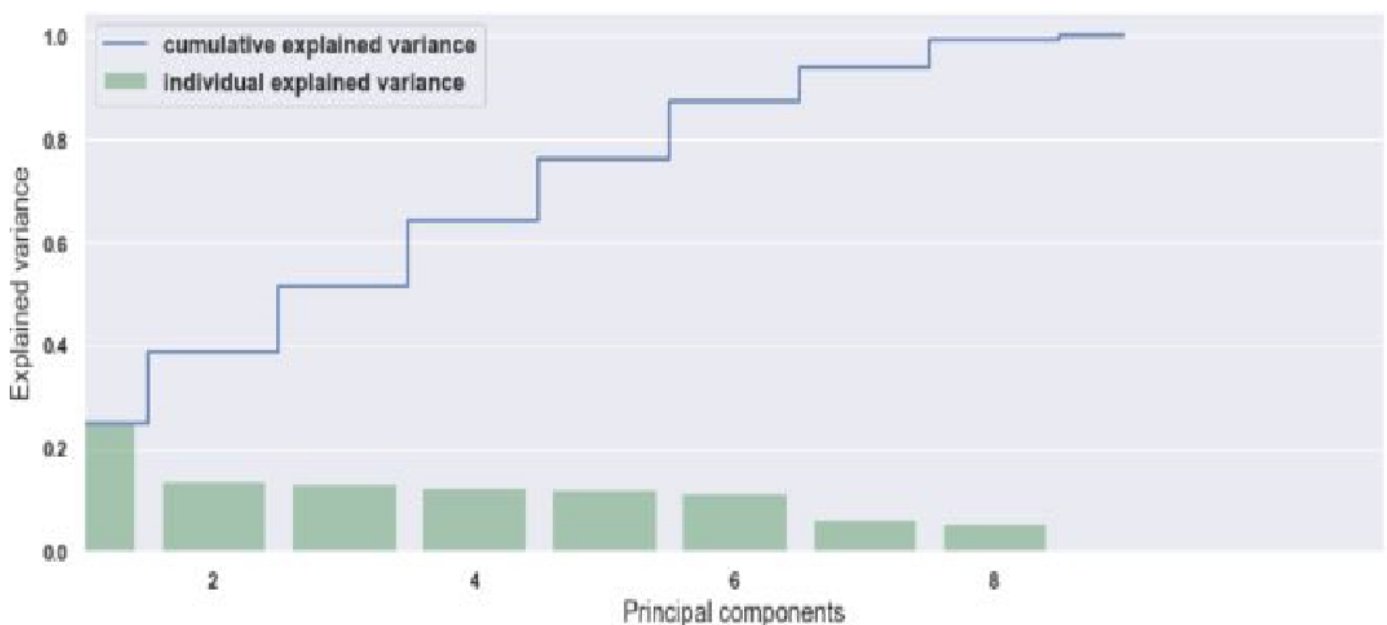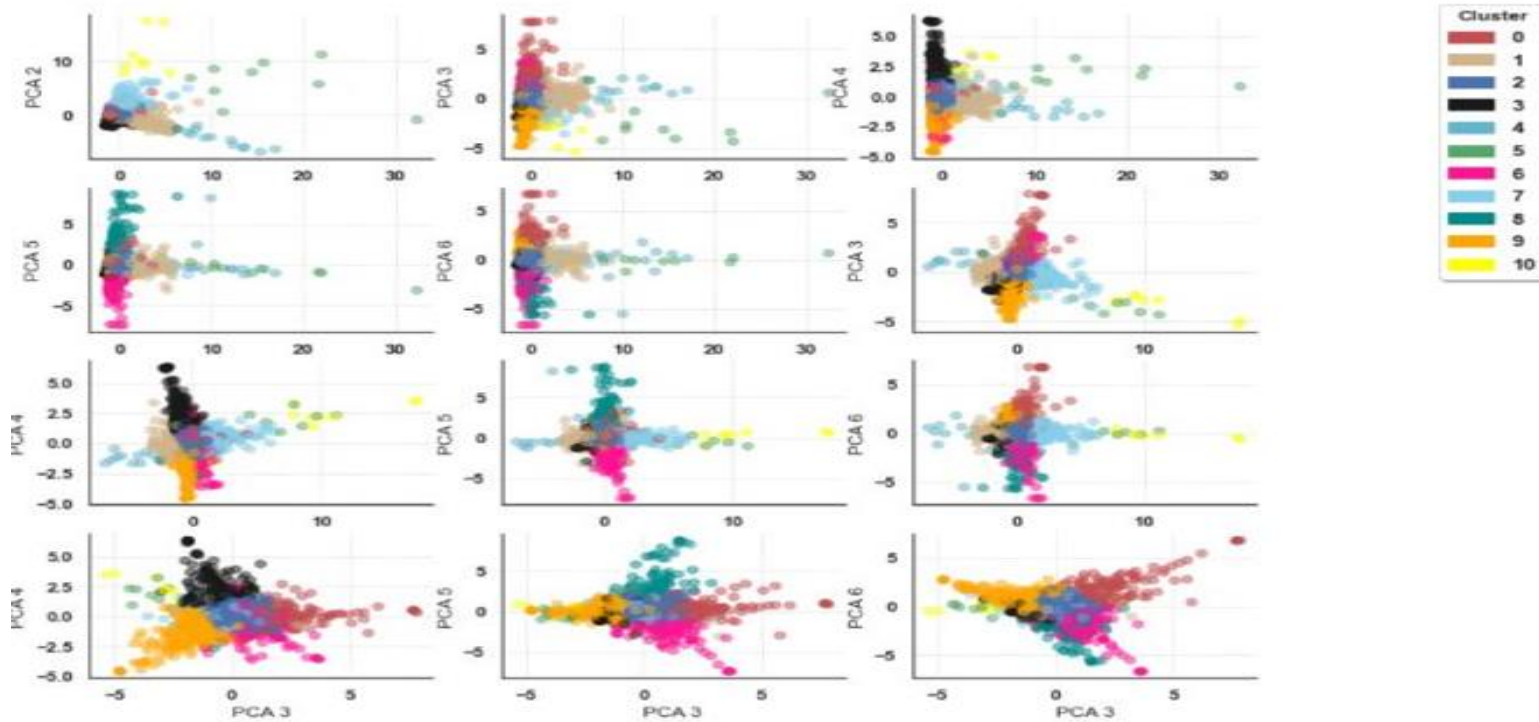
1. Monthly sales of each product cluster-

2. We got price vs order amount chart –
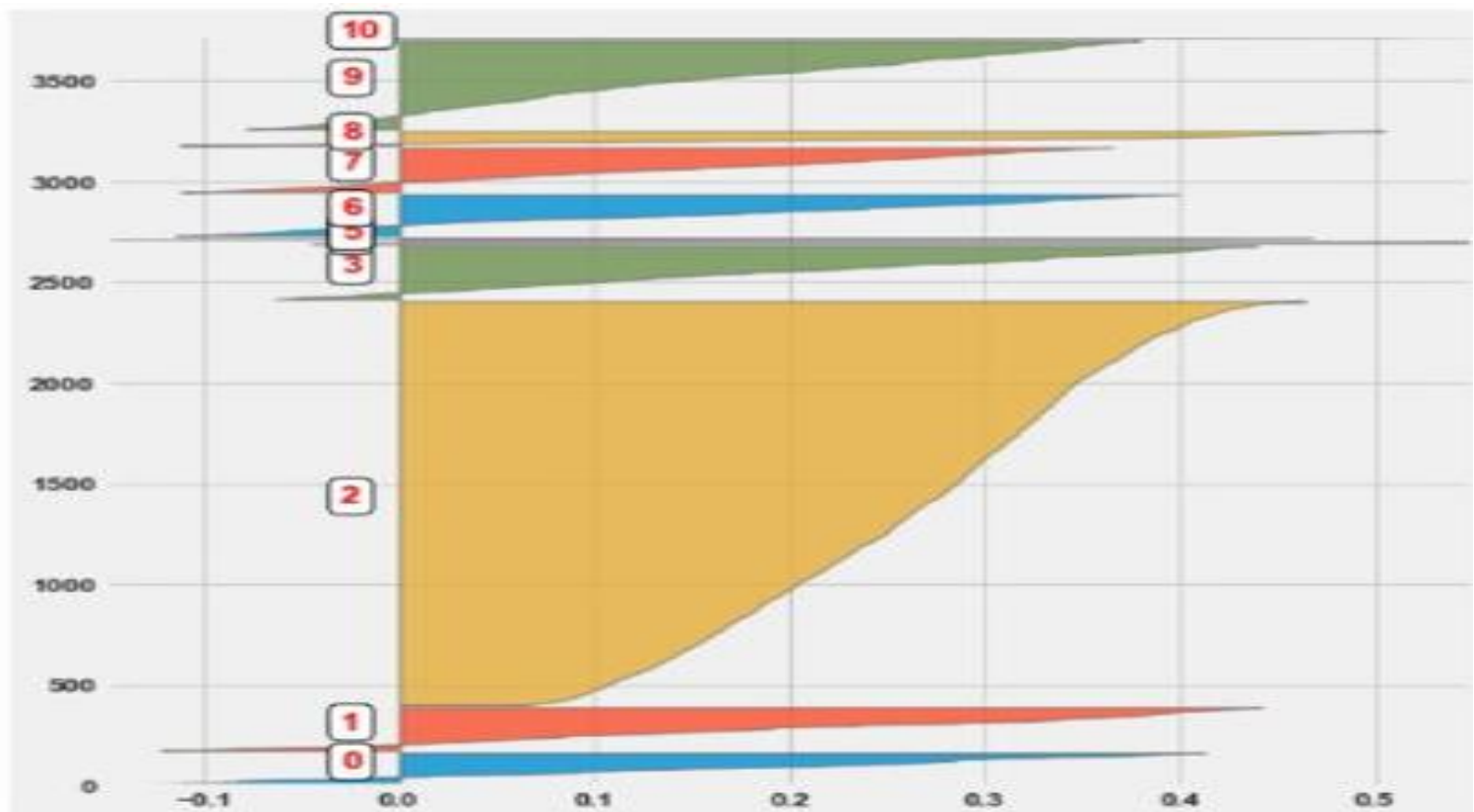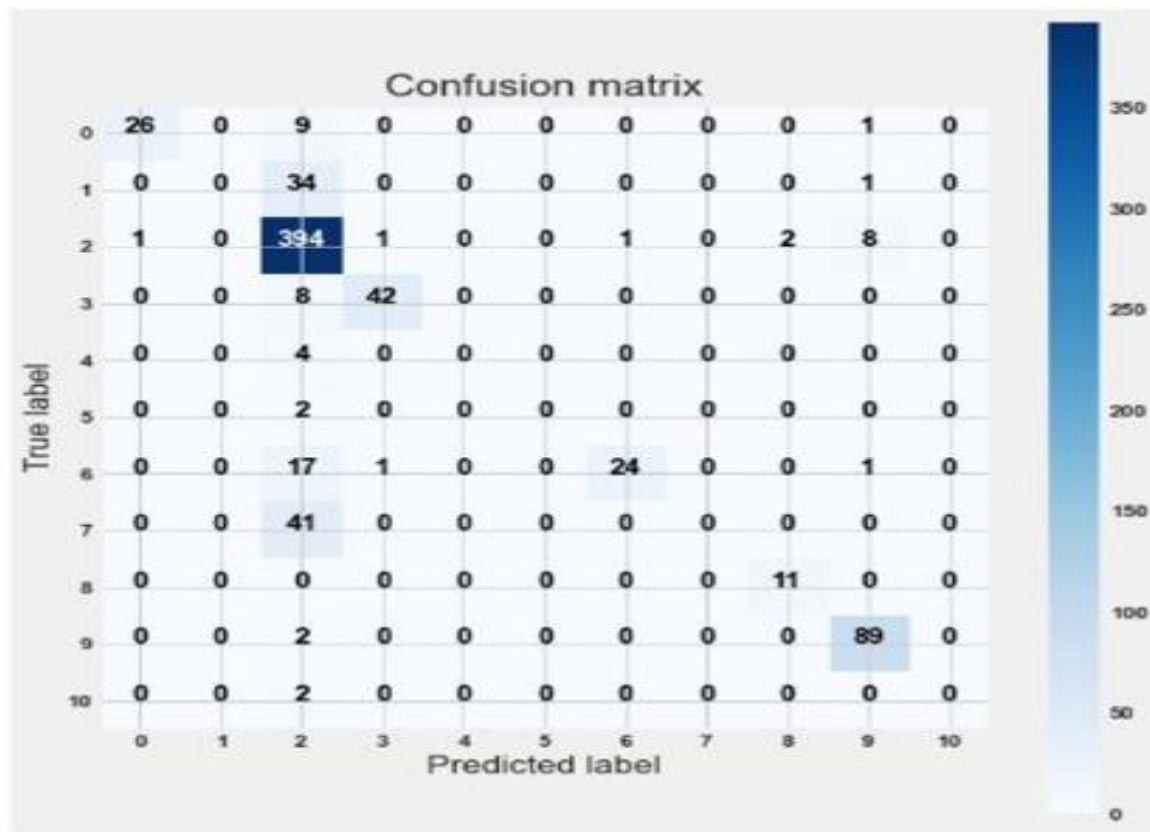

3. Amount of variance explained by each of component-

4. PCA analysis of customer categories-

5. Silhouette score within different cluster-

6. Predictions and real value with confusion matrix-

7. Accuracy of different learning curves-
   We found Gradient Boosting model works the best with 89.2% accuracy

Nearest Neighbors learning curves

- Training score
- Cross-validation score

Decision tree learning curves

- Training score
- Cross-validation score

Random Forest learning curves

- Training score
- Cross-validation score

AdaBoost learning curves

- Training score
- Cross-validation score

Gradient Boosting learning curves

- Training score
- Cross-validation score