## Project Development Phase Model Performance Test

Date	30 October 2023		
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	Airline Review Classification Using Machine Learning		

## Metrics for classification model(KNN):

Confusion matrix: [[2987 77]

[ 87 1484]]

Accuracy Score: 96.46

Screenshots:

Confusion Matrix:

[[2987 77]

[ 87 1484]]

Accuracy Score: 0.9646170442286948

Classification	Report: precision	recall	f1-score	support	
0	0.97	0.97	0.97	3064	
1	0.95	0.94	0.95	1571	
20011207			0.96	4635	
accuracy			0.70	4033	
macro avg	0.96	0.96	0.96	4635	
weighted avg	0.96	0.96	0.96	4635	

**Hyperparameter Tuning and Validation Method** 

Best Hyperparameters: {'n\_neighbors': 11, 'p': 1}

Tuned KNN Model Accuracy: 0.9646170442286948