Model comparison- Walmart case study

Models used:

1) Logistic regression (with and without hyperparameter testing)
2) Decision tree

Benefits of each method:

1) Logistic regression:
   - Better with high dimension data
2) Decision trees:
   - More robust to outliers, skewed data

Interpretation of results from both methods

	Logistic regression (with auto-tuning)	Decision tree
Accuracy on validation dataset	0.87	0.82
AUC	0.77	0.58
True positives + True Negatives	10006	9516
False positives+ False negatives	1494	1984

Conclusion: The logistic regression model is performing better on all performance measures and classifying outcomes more correctly.