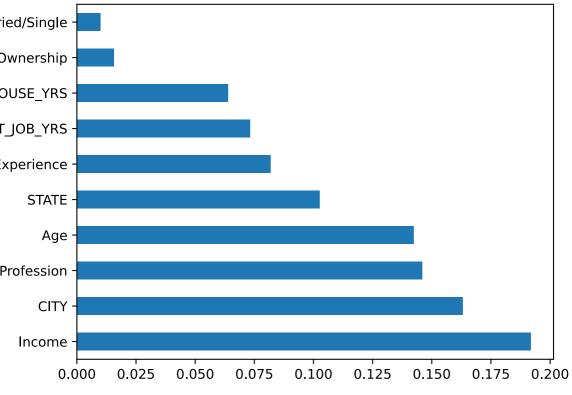


Top 10 Feature Importances

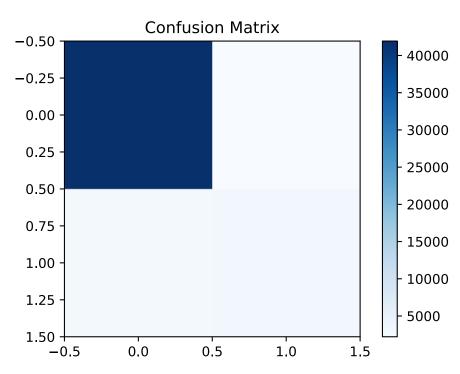


Accuracy Score

Accuracy: 0.90

Classification Report

	precision	recall	f1-score	support
0	0.94	0.95	0.94	44147
1	0.60	0.54	0.57	6253
accuracy			0.90	50400
macro avg	0.77	0.74	0.75	50400
weighted avg	0.89	0.90	0.90	50400



Confusion Matrix Explained:

- Model predicted 41936 true negatives, which indicates it is good at identifying the majority class.
- 2211 false positives suggest that the model sometimes incorrectly classifies instances as positive when they actually are negative.
- 2905 false negatives indicates instances that were wrongly classified as negative when they should have been positive.
- Total 3348 True positives shows correctly classified as positive.

What Next? Reduce False Negative!

Why False Negative?

In this use case if we get risk flag as True, we will have time to verify & financial loss can be saved. But in case of False Negative, we might ignore the risk as it has been predicted non-risky & suffer financial loss.

How?

- Adjust class weights to penalize misclassification of the minority class: class_weight='balanced'
- Adjust the decision threshold for classification
- Resample dataset