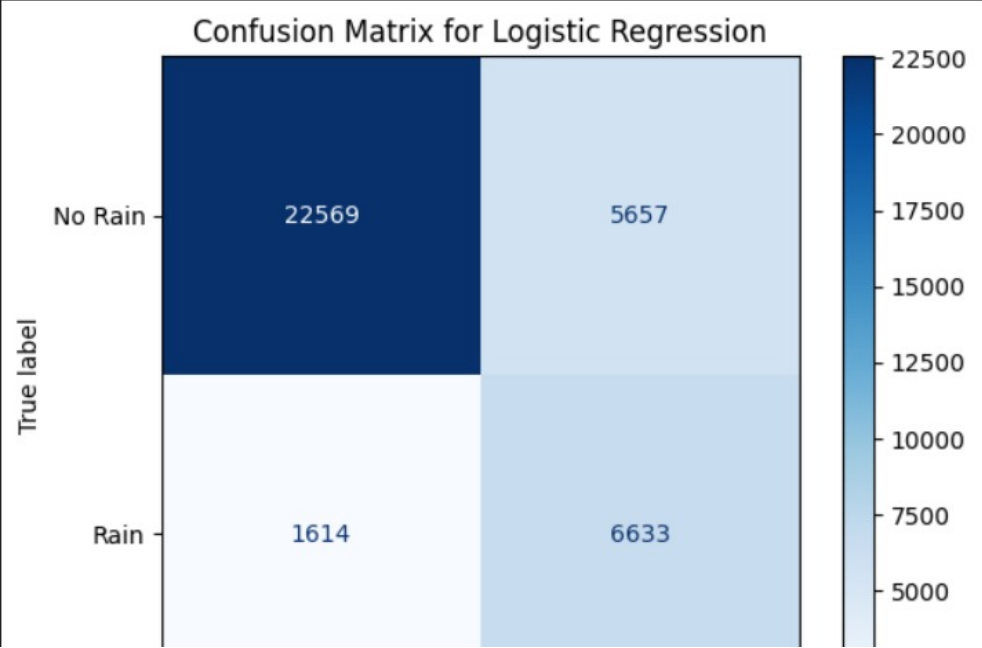


```
--- Training Logistic Regression ---
--- Logistic Regression Evaluation on Test Data ---
ROC AUC Score: 0.8807
```

Classification Report:

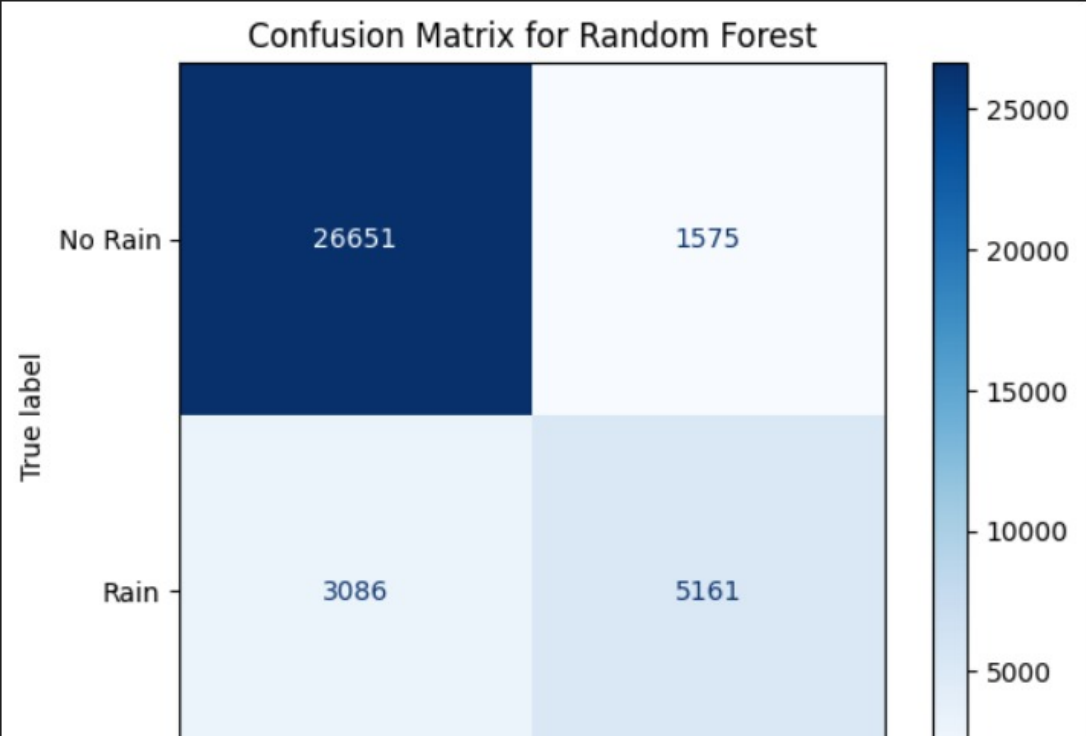
	precision	recall	f1-score	support
0.0	0.93	0.80	0.86	28226
1.0	0.54	0.80	0.65	8247
accuracy			0.80	36473
macro avg	0.74	0.80	0.75	36473
weighted avg	0.84	0.80	0.81	36473



```
--- Training Random Forest ---
--- Random Forest Evaluation on Test Data ---
ROC AUC Score: 0.9157
```

Classification Report:

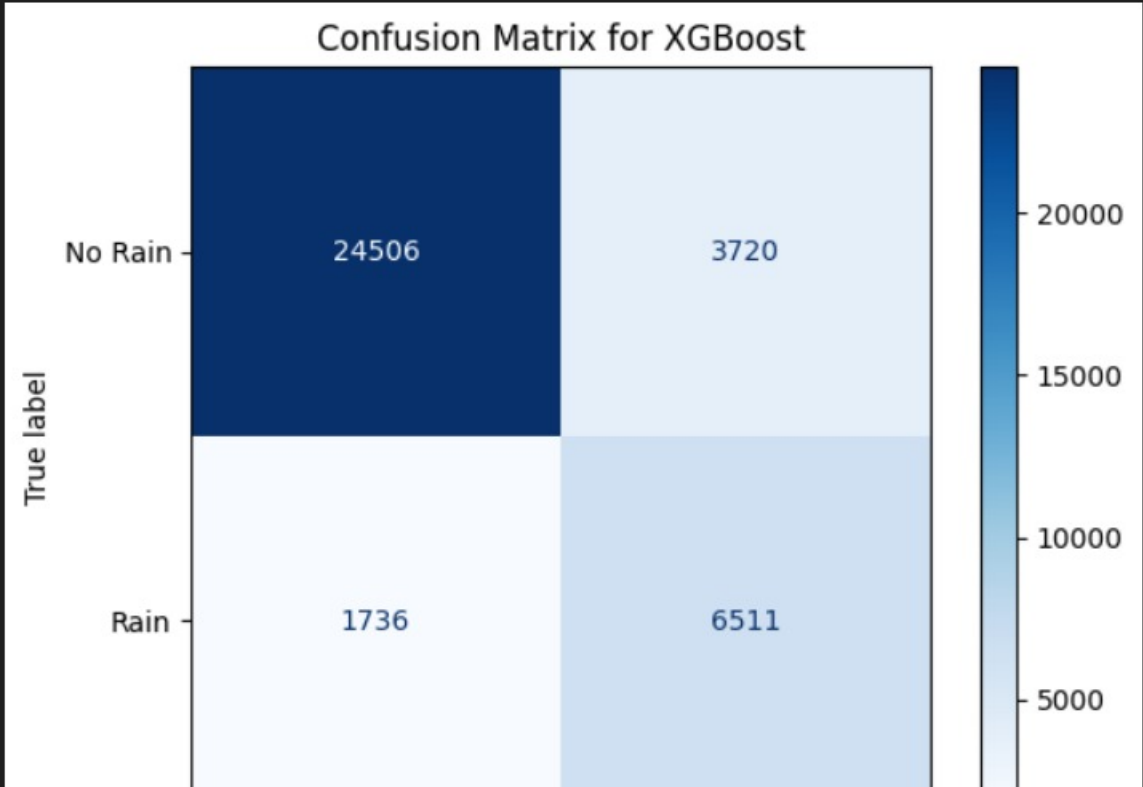
	precision	recall	f1-score	support
0.0	0.90	0.94	0.92	28226
1.0	0.77	0.63	0.69	8247
accuracy			0.87	36473
macro avg	0.83	0.79	0.80	36473
weighted avg	0.87	0.87	0.87	36473



```
--- Training XGBoost ---
--- XGBoost Evaluation on Test Data ---
ROC AUC Score: 0.9144
```

Classification Report:

	precision	recall	f1-score	support
0.0	0.93	0.87	0.90	28226
1.0	0.64	0.79	0.70	8247
accuracy			0.85	36473
macro avg	0.79	0.83	0.80	36473
weighted avg	0.87	0.85	0.86	36473

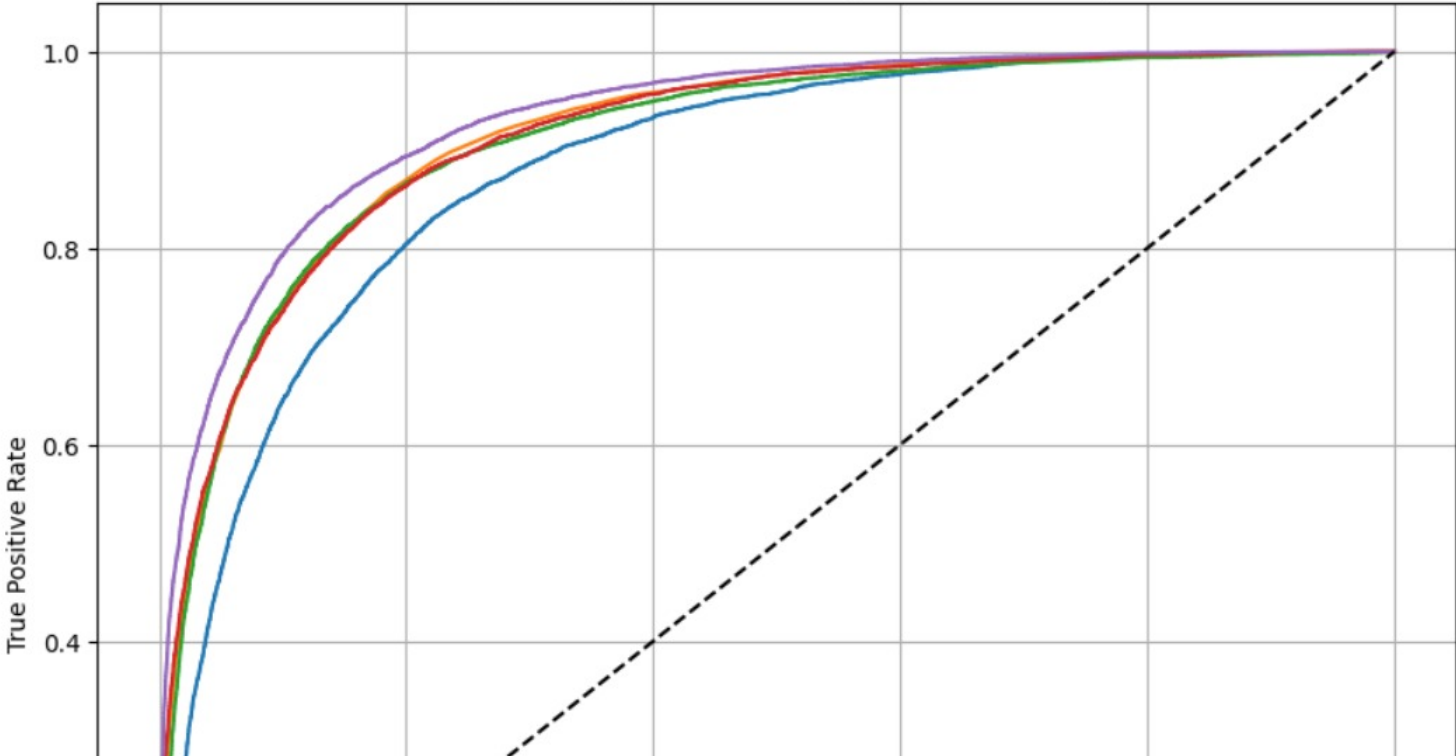


--- Step 5: Final Model Comparison Summary ---

	Model	ROC_AUC	Precision_1	Recall_1	F1-Score_1
4	Neural Network	0.931655	0.0	0.0	0.0
1	Random Forest	0.915696	0.0	0.0	0.0
3	XGBoost	0.914377	0.0	0.0	0.0
2	MLP Classifier	0.909999	0.0	0.0	0.0
0	Logistic Regression	0.880681	0.0	0.0	0.0

1140/1140 1s 505us/step

Receiver Operating Characteristic (ROC) Curve Comparison



```
..  
  
--- Final Conclusion ---  
Based on ROC AUC and F1-Score for the minority class, the best performing model is likely: Neural Network
```