Engagement Level Prediction Report

Model Performance Summary

1. Loading Data...
2. Preprocessing Data...
3. Training Model (Random Forest)...
4. Evaluating Model...

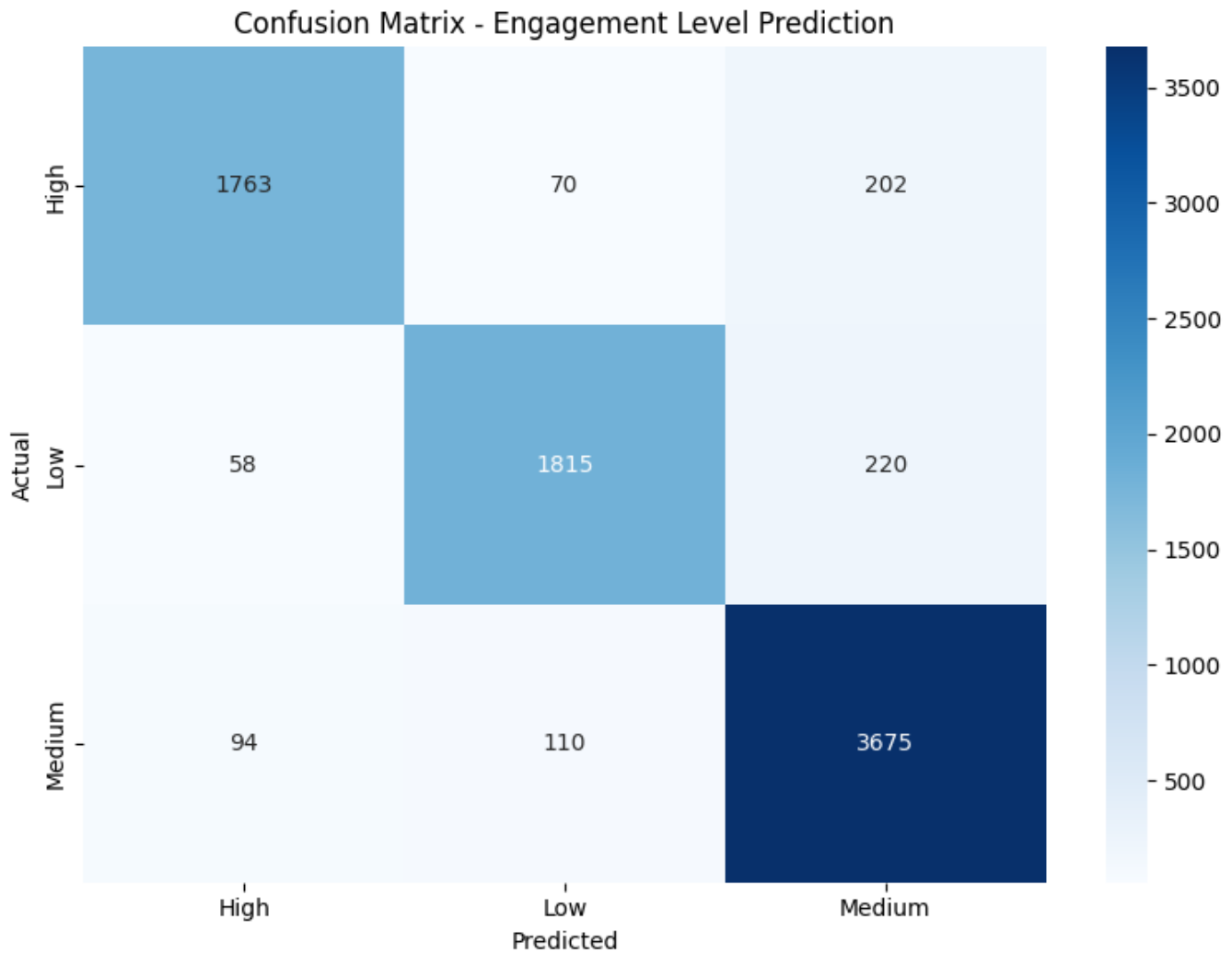Model Accuracy Score:
0.9058323966529287

Classification Report:

	precision	recall	f1-score	support
High	0.92	0.87	0.89	2035
Low	0.91	0.87	0.89	2093
Medium	0.90	0.95	0.92	3879
accuracy			0.91	8007
macro avg	0.91	0.89	0.90	8007
weighted avg	0.91	0.91	0.91	8007

Reports generated successfully:
- model_performance_report.txt (This file)
- confusion_matrix.png
- feature_importance.png

Engagement Level Prediction Report

Confusion Matrix

Confusion Matrix - Engagement Level Prediction

Engagement Level Prediction Report

Feature Importance

Top 10 Most Important Features