Model Metrics

Model: Random Forest
- Accuracy: 1.00
- Balanced Accuracy: 0.9966
- Precision (Stroke): 0.9934
- Precision (No Stroke): 1.00
- Recall (Stroke): 1.00
- Recall (No Stroke): 0.9933
- F1-Score (Stroke): 1.00

Confusion Matrix:
- True Positives: 8549
- False Positives: 57
- True Negatives: 8441
- False Negatives: 0

Feature Importance:

- Age: 0.42
- Average Glucose Level: 0.24
- BMI: 0.22

Hyperparameter Tuning Results:

- Best n_estimators: 200
- Best max_depth: 20
- Best min_samples_split: 2
- Best min_samples_leaf: 1