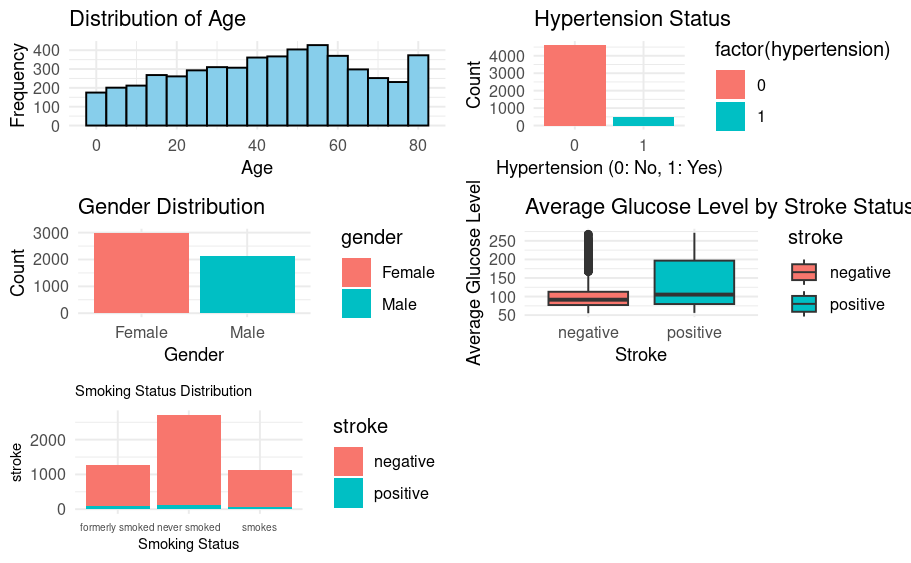
**Exploratory Data Analysis**



A graph with a blue line

Description automatically generated

**Using Density plot to visualize distribution of prediction probabilities for Positive and Negative Class**

A graph of a graph showing a number of negative

Description automatically generated with medium confidence

**Using Confusion Matrix to Test Model Performance:**

Truth

Prediction negative positive

negative 1211 67

positive 0 0

**Performance of the Model on Test Set:**

| **.metric** | **.estimator** | **.estimate** | **.config** |  |
| --- | --- | --- | --- | --- |
| accuracy | binary | 0.94757433 | Preprocessor1\_Model1 |  |
| roc\_auc | binary | 0.81771572 | Preprocessor1\_Model1 |  |
| brier\_class | binary | 0.04643307 | Preprocessor1\_Model1 |  |

A screenshot of a computer

Description automatically generated