Logistic Regression

- **Prediction Function:**
  The Sigmoid function is used to predict the output. It provides the probability of a particular event occurring.

- **Data Normalization:**
  Z-score normalization is used to standardize the dataset.

- **Cost Function:**
  The cost is computed using the Mean Squared Error (MSE) function.

- **Parameter Updates:**
  The Gradient Descent algorithm is employed to update the parameters w and b.

- **Learning Rate:**
  The learning rate controls the step size during the gradient descent process when updating w and b.