

Assignment I.c: Logistic Regression

q1. Create a complete document on Logistic Regression

- Write up on Logistic Regression
 - model representation
 - cost function
 - Sigmoid function
 - Types: Binary, Multinomial, Ordinal
- Python program for Logistic regression (single and multi-variable; Binary, Multinomial and Ordinal)
 - load a classification data of your choice
 - with and without (using linear regression model and sigmoid function) using an in-build python model.
 - Train the model with 75% of total data and do the performance evaluation of the model using the remaining 25%(give the measures: Confusion Matrix, Accuracy, Precision, Recall etc.)
 - Draw a performance plot of the logistic regression model(% of training data vs Accuracy)