

(23A31401T) MACHINE LEARNING

Assignment-II

Q1. List out the names and formulas of Like 1st Assignment Question Wise

Category	Name	Formula
Random Forests	Classification,Regression	?
Bayes Classifier	Classification,Regression(gimi ,Gest..)	?
Linear Regression		?
Logistic Regression	sigmoid function	?
Support Vector Machines	Kernel Trick(Linear,poly,G)	?
MLPs	activation functions & Back propagation Error Calc update weights formuls	?
Clustering	All Types and There formuls	?

Pattern Proximity Get From Text Book Note Down all 2 ½ unit to 5 Unit

Q2.) Explain the bias–variance trade-off and how Random Forests handle it in classification and regression. Get from PPT Notes

Q3.) Explain the Bayes and Naive Bayes classifiers, including their working flow and mathematical formulas. Get from PPT Notes

Q4.) Explain Support Vector Machines (SVM), the linearly non-separable case, non-linear SVM, and the kernel trick, including their working flow and formulas. & Linear Regression & Logistic Regression . Get from PPT Notes

Q5.) Explain clustering, its types, and the K-Means clustering algorithm in brief(Get from PPT K-Means Notes).