

SIT1305 – Machine Learning

PART A (5 Marks)

1. What do you mean by competitive learning?
2. What are the various test to comparing two classification algorithms?
3. What is Type-I and Type-II error?

PART –B (5 Marks)

1. Assume Scopus tries to predict the number of views of each article, using a machine learning algorithm. The features for the algorithm would be author name and articles of the same author. Which evaluation metric would be used for the above problem?
 - a. Accuracy
 - b.F1 score
 - c. Precision
 - d. Mean Square Error
2. In Reinforcement Learning, what characterizes the state of the world.
 - a. Bayesian learning
 - b. Markov Property
 - c. Formalization process
 - d. Learning property
3. _____ network is a form of self organizing maps.
4. The four types of reinforcement algorithm are _____, _____, _____ and _____.
5. A training dataset is absent in _____ learning algorithm

PART C (5 Marks)

1. Discuss Adaptive Resonance Theory in detail (ART)