**PGP in AI/ML**

**Classification - Assignment 3**

**Submission Date: 2359 hrs on 15-09-2019**

**Total Marks: 20**

The following questions are to enhance your understanding of basic concepts and definitions. You are expected to answer these questions on your own without referring to internet.

1. Compare and contrast Logistic regression with any probabilistic generative model using an example data set. **[6M**]
2. For the dataset -2 (liver disease dataset), implement Logistic Regression classifier using Python. **[12M**]

Please follow the following steps.

1. Load the dataset [1M]
2. Cleanse the data [2M]
3. Select appropriate features [2M]
4. Split the data [1M]
5. Implement Logistic Regression Classifier [2M]
6. Calculate accuracy measures (Precision/Recall/F1/AUC of ROC/CM) [2M]
7. Fine tune the model using different regularization parameters [2M]

Submission Details

Text answers – id\_classification\_assignment3.doc

Code - id\_LR.ipynb

Contact Details

(You should put up queries in the discussion forum of the corresponding assignment folder only)

1. Himanshu - himanshuchawla437@gmail.com
2. Mohit - mohitrathore15@gmail.com
3. Parthasarathy - pdparthasarathy.03@gmail.com