BHARATI VIDYAPEETH'S
COLLEGE OF ENGINEERING, KOLHAPUR

Accredited by NAAC With 'A' Grade
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1. Assignments

Assignments are useful for students to build up their critical thinking skills while looking for a solution to particular problem. Below is the example of assignments which we used to provide to students for various subjects after completion of each unit.

Subject Name- Machine Learning
Class-TY CSE

Assignment .1

1. What is hypothesis function for simple linear regression? (CO2)
2. Using the given data set find the value y when (CO3)
   x=10.X={1,1,2,3,4,4,5,6,6,7}
   Y={2.1,2.5,3.1,3.0,3.5,3.2,4.3,3.9,4.4,4.8}
3. Using the given data set find the value y when (CO3)
   x=10.X={1,2,3,4,5,6}
   Y={25,35,42,50,55}
4. Explain multivariate linear regression. (CO1)

Assignment .2

1. What is hypothesis function for multivariate linear regression? (CO1)
2. Explain gradient descent for multivariate linear regression. (CO2)
3. Explain polynomial regression. (CO2)
4. What are applications of multivariate linear regression? (CO1)

Assignment .3

1. Explain logistic regression. (CO1)
2. Differentiate between linear regression and logistic regression. (CO1)
3. Explain Naïve Bayes Classifier. (CO2)
4. Explain K- Nearest Neighbor Classifier.(CO2)

Assignment .4

1. What is decision tree? State the advantages, and limitations. (CO1)
2. What is random forest? Explain with example. (CO1)
3. What is SVM? Explain in detail. (CO2)
4. Differentiate between decision tree and SVM. (CO2)

Assignment .5

1. What is clustering? Explain in detail. (CO2)
2. Explain K Means clustering. (CO2)
3. Explain Hierarchical clustering. (CO1)
4. Explain a priori algorithm. (CO2)

Assignment .6

1. What is neural network? Explain in detail. (CO1)
2. What is hypothesis function and cost function for neuron? (CO3)
3. Explain gradient descent for neuron. (CO2)
4. Explain Content based recommendation engines. (CO4)

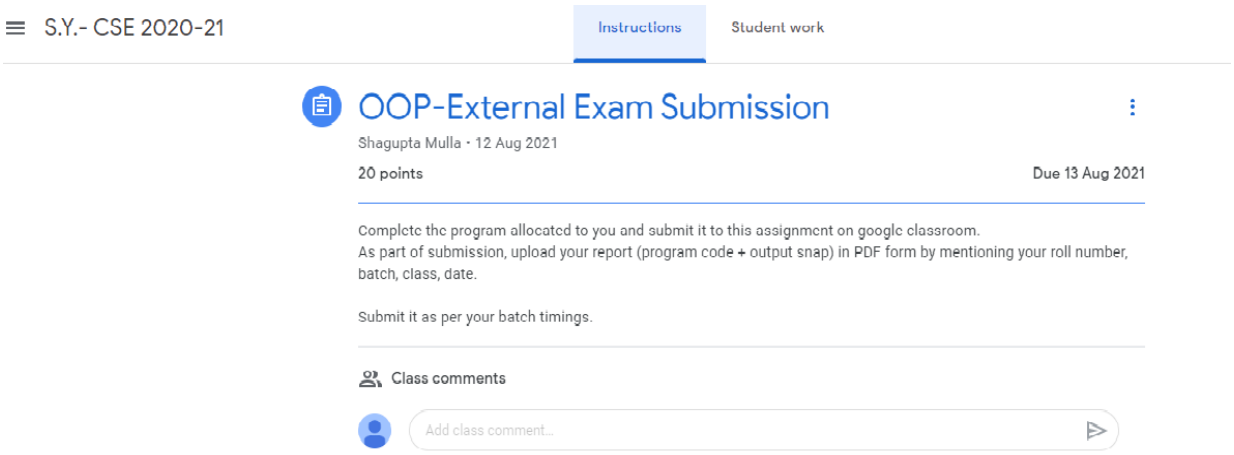
Assignment .7

1. Explain Collaborative Filtering in recommendation system. (CO4)
2. Explain Content-based Filtering in recommendation system. (CO4)
3. What Are the Types of Recommendation Engines? (CO3)

Prof.V.D.Chougule

Subject Incharge

2. Assignments have also been given through online mode by using google classroom platform.



Vijay Ram Ghorpade

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