



Assignment No: 2

Programme: _____

Semester: _____

Submitted by:-

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| Student Name : | |
| Enrollment No : | |
| Roll No. : | |
| Course Name: | |
| Date of Submission: | |

Submitted to:-

**Department of Computer Science and Applications (CSA)
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UNIVERSITY**
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& UIS 2 (f) of U.G.C. Act 1956

Programme: B.Tech (CS) VIIIth Sem
Course Name: Artificial Intelligence
Course Code: ECSE-481
Assignment No: 2
Due date of submission: 20.04.2018

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

- (a) Differentiate between supervised and unsupervised learning.
- (b) Discuss all the design principles of pattern recognition system.

Q.2

- (a) Explain the Hidden Markov Models (HMM) in detail.
- (b) Explain the following:
 - (i) Principle Component Analysis (PCA)
 - (ii) K –means clustering



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Programme: B.Tech (CS) VIIIth Sem
Course Name: Data Mining & Warehousing
Course Code: ECSE-482
Assignment No: 2
Due date of submission: 20.04.2018

Instructions

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Q.1

- (a) As we know about data ware house. Now, discuss data mart and also differentiate it from data ware house.
- (b) Define Schema. Also explain star and snow flake schema in detail.

Q.2

- (a) As we know about data mining. So, now you can explain a detailed architecture of data mining (KDD process). Do it.
- (b) We know that, there are several types of OLAP server. Explain ROLAP, MOLAP and HLOP with neat and clean diagram.



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Programme: B.Tech (CS) VIIIth Sem
Course Name: Parallel Algorithm
Course Code: ECSE-483-3
Assignment No: 2
Due date of submission: 20.04.2018

Instructions

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2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

- (a) Explain cost optimal algorithms in detail.
- (b) Discuss the following models:
- Butterfly
 - Perfect Shuffle Computers

Q.2

- (a) Write short note on:
- I. Permutation
 - II. Combination
- (b) Explain vector multiplication with suitable example.



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Programme: B.Tech (CS) VIIIth Sem
Course Name: Entrepreneurship Development
Course Code: ECSE-484-2
Assignment No: 2
Due date of submission: 20.04.2018

Instructions

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2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

- (a) Describe “Stages of economic development” with the help of chart paper.
- (b) Briefly define Venture capital in your own words with example of venture capital in India.

Q.2

- (a) Go through story of any Indian Entrepreneur and explain the barriers he faced.
- (b) What is Creative problem solving? Give an example too.