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20SAM14

## First Semester M.Tech. Degree Examination, Feb./Mar. 2022 Data Science

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

1. a. Explain Big data and Data Science hype. How to get past the hype? Explain the process of datafication. (10 Marks)
- b. What is data science? Explain the draw conveys Venn diagram of Data Science. (10 Marks)

OR

2. a. Explain the terms i) data ii) database iii) data warehouse iv) data mining v) data visualization. (10 Marks)
- b. Discuss the concept of 'model' in Data Science. Explain the role of social scientist and statistician in data science. (10 Marks)

### Module-2

3. a. Discuss linear regression with suitable example. Explain the evaluation metrics used in linear regression. (10 Marks)
- b. Explain the concept of KNN algorithm. What are the modeling assumptions of KNN algorithm with example? (10 Marks)

OR

4. a. Explain the concept of K-means algorithm. What is the selection criteria for the selection of K. (10 Marks)
- b. With a multidimensional space, explain the different similarity metrics of KNN algorithm. (10 Marks)

### Module-3

5. a. What are the limitations of regression model? And how to overcome them. (10 Marks)
- b. What are the different ways to scrap data from web? Explain different tools used for web scrapping. (10 Marks)

OR

6. a. Explain the concept of Naive Baye's algorithm with relevant equations and suitable example. (10 Marks)
- b. How decision trees are built? Explain with a case study and relevant statistics. (10 Marks)

### Module-4

7. a. Discuss features generation. Describe feature selection using SVD algorithm. What is the need of SVD technique? (10 Marks)
- b. Describe different ways to detect communities in social networks. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42/8 = 50, will be treated as malpractice.

# Phd Question Papers Computer Science

**K Payea**



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web if the installation marks have disappeared put a new installation mark on the timing belt before removing each part em 110 2uz fe engine mechanical engine unit b using the crankshaft damper bolt turn the crankshaft to align the timing marks of

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web dec 9 2020 put the wrench on the crank bolt and turn it clockwise until the mark on the harmonic balancer crank pulley lines up with the tdc mark on the lower timing cover now look at the cam sprocket the dowel in the cam should be in the hole for number 1 on some older b2000 engines they might have an a b c all alignment should be on a

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web align the timing marks of the camshaft with the mark plates of the timing chain and install the timing chain hint align the timing marks with the mark plates while turning the hexagonal service portion of the camshaft using a wrench 2 install chain tensioner slipper a install the chain tensioner slipper 3 install chain tensioner

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web rotate the crankshaft pulley two complete turns clockwise and check the timing marks if the timing marks are correct tighten the lock bolt for the tensioner to 20 to 34 n m 200 to 350 kgfcm for fe to 37 to 52 n m 380 to 530 kgfcm for f2 engine check the movement on the tension side of the timing belt

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web fe engines use a timing assembly very similar to other ford engines with the aforementioned cam thrust plate an offset positioned dowel pin for locating and a single central cam bolt for retention the factory cam sprockets were often aluminum with molded nylon teeth for quieter operation

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