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Code No: 138FU  JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  B. Tech IV Year II Semester Examinations, December - 2020  DATA ANALYTICS  (Common to ECE, CSE)  Max. Marks: 75  Answer any Five Questions All Questions Carry Equal Marks	A
7. "The secondary data can be obtained through internal and external sources for an organization". Justify your answer with a real – time scenario.  2.a) Discuss the measures to be taken for achieving data quality.	A
b) Illustrate the significance of data preprocessing. [7+8]	
3. Explain the application of modeling in business and any one data modeling technique in detail.  A.a. Describe the various steps involved in data analytics.  Differentiate between nominal data and ordinal data.  [15]	A
5. Apply linear regression using the method of least squares to the following data and predict the salary for a person with 10.5 years. [15]	
Years of 3 8 9 3 15 9 11 16 20 6 Salary 21K 50K 64K 26K 81K 66K 58K 83K 90K 41K	A
<ul><li>Demonstrate maximum likelihood estimation.</li><li>Discuss the importance of sigmoid function. [7+8]</li></ul>	
7. Describe the components of time series data and explain ARIMA model for time series analysis with illustrations.	
8.a) Appraise tree maps as a hierarchical visualization technique. b) Substantiate the use of geometric projection visualization techniques for multidimensions.  [7+8]	
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