

CSH 202

Second Semester M.Sc. Examination, September/October 2022 COMPUTER SCIENCE Data Science with Python

Time	3 Hours Max. Marks : 7	7 C
Note: Answer any five full questions. All question carries equal marks.		
	What is Data Science and what are the key factors that led to Data Science? Explain the descriptive statistics measures that are used to study the characteristics of the dataset.	8
	Describe the CRISP-DM framework for the Data Science process. Explain the different types of real world data with examples.	5
	What is data visualization? Explain any two techniques for univariate and multivariate visualization. What is the need for feature selection? Explain the different types of feature selection.	7
	What is supervised learning? Explain the steps involved in supervised learning. Why kNN method is called as lazy learner? Explain the kNN method.	7
	What is Clustering? Explain the different types of Clustering. Explain two applications of Clustering and Classification.	6
	Explain the metrics used for evaluating the performance of classifiers. What is text mining? Explain the steps involved in processing text data.	7
	What is Anomaly detection? Explain the techniques of Anomaly detection.	8
t	What is recommendation Engine? Explain any two applications of recommendation engine.	6
	What is time series data? Explain the taxonomy of time series forecasting. What is deep learning? Explain the functionality of deep learning.	7
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