University of Barishal

Dept. of Computer Science and Engineering

Course Code: CSE-4213; Course Title: Machine Learning and Data mining Admission Session: 2019-20; Exam: Mid Term-II; Marks: 20; Time: 1Hour

1.	A dataset contains "Age" ranging from 18–80 and "Income" ranging from 20,000–200,000. Which feature scaling technique would you use and why?	5
2.	Compare min-max scaling and standardization with respect to handling outliers in a dataset.	5
3.	Suggest two methods to handle imbalanced data and explain how they improve model performance.	5
4.	You are building a KNN classifier to detect if a student will pass or fail based on study hours and attendance. Explain how the choice of k affects the model performance.	5
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