

T.Y.B.Tech Computer Science & Engg., Semester: V, A.Y.: 2023–2024
Course Name: Machine Learning (Theory), Course Code: UCSC0502

ISE 1, Component 1: Assignment Part–1

Instructions:

- Assignment Part–1 is based on Unit 1.
 - Students must maintain a *Separate Notebook* to write the assignments.
 - Attempt all questions, complete the assignment in written form, and get it signed by your course teacher.
 - The assignment checking will take place during the lab sessions from 22 to 26 August 2023.
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| Q.1 | Define machine learning and describe the key steps in the machine learning process. |
| Q.2 | Explain supervised machine learning with an example. |
| Q.3 | Explain unsupervised machine learning with an example. |
| Q.4 | List different types of machine learning and briefly compare supervised learning vs unsupervised learning. |
| Q.5 | Discuss different performance measures in machine learning for classification and regression tasks. Use appropriate examples. |
| Q.6 | Write a note on <ul style="list-style-type: none">a) Data preprocessing in machine learning.b) Data visualization in machine learning.c) Real-world applications of machine learning. |
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