**COMPUTER ENGINEERING DEPARTMENT**

**ASSIGNMENT NO-01**

**SUB: Machine Learning**

**COURSE: T.E. Year: 2020-2021 Semester: VI**

**DEPT: Computer Engineering**

**SUBJECT CODE: CSDLO6021 SUBMISSION DATE: 28/04/2021**

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| **Class: TE Comps B-50** | **ID: TU3F1819127** |

**Assignment No 1**

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| **Sr.**  **No.** | **Question** | **CO**  **mapping** |
| **1** | What are the issues in machine learning? | CO1 |
| **2** | What are the applications of machine learning? | CO1 |
| **3** | What is machine learning? Explain types of machine learning. | CO1 |
| **4** | What is ANN? Explain the architecture of ANN. | CO2 |
| **5** | Implement NOR gate using McCulloch-Pitts Model. | CO2 |

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| **6** | Use the method of least squares regression to predict the final exam grade of a student who received 84 of the midterm exams.   |  |  | | --- | --- | | **Midterm Exam**  **(X)** | **Final Exam**  **(Y)** | | 72 | 84 | | 50 | 63 | | 81 | 77 | | 74 | 78 | | 94 | 90 | | 86 | 75 | | 59 | 49 | | 83 | 79 | | 65 | 77 | | 33 | 52 | | 88 | 74 | | 81 | 90 | | CO4 |
| **7** | Create a decision tree for the attribute using Gini Index   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Eyecolor** | **Married** | **Sex** | **Height** | **Class** | | Brown | Yes | Male | Long | Football | | Blue | Yes | Male | Short | Football | | Brown | Yes | Male | Long | Football | | Brown | No | Female | Long | Netball | | Brown | No | Female | Long | Netball | | Blue | No | Male | Long | Football | | Brown | No | Female | Long | Netball | | Brown | No | Male | Short | Football | | Brown | Yes | Female | Short | Netball | | Brown | No | Female | Long | Netball | | Blue | No | Male | Long | Football | | Blue | No | Male | Short | Football | | CO4 |

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