**Task 4**

**ML Problem Types**

**Marks: 20**

**Time: 15 minutes**

This task is based on your real-world understanding and ability to identify what kind of problem it is. Identify the type of ML problem. Mention whether a problem is Classification / Regression / Clustering / Association / Reinforcement type.

**List the type of problem for the problems you specified in Task3 for the following domains**

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| **S.No** | **Healthcare** | **Type** |
| **1.** | **Medical Image reader** | **Classification** |
| **2.** | **Disease Diagnosis** | **Classification** |
| **3.** | **Performing Critical Surgery** | **Reinforcement Learning** |
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| **S.No** | **Education** | **Type** |
| **1.** | **Tutor (customized for each student’s capabitlity)** | **Reinforcement Learning** |
| **2.** | **Study Planner** |  |
|  |  | **Clustering** |
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| **S.No** | **Banking** | **Type** |
| **1** | **Financial Planner** | **Regression** |
| **2** | **Investment buddy** | **Clustering** |
| **3** | **Stock market prediction** | **Regression** |
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| **S.No** | **E-Commerce** | **Type** |
| **1** | **Marketing Helper** | **Association** |
| **2** | **Predicting Viral Products** | **Classification** |
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| **S.No** | **Your Problems** | **Type** |
| **1.** | **Day Planner** | **Clustering** |
| **2** | **Personalized Learning Pathways** | **Reinforcement Learning** |
| **3** | **Career Path Recommendation** | **Classification** |
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