# 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**

| 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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