**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** | **E-Commerce** | **Type** |
| **1** | **Product Recommendation** | **Association** |
| **2** | **Dynamic Pricing** | **Regression** |
| **3** | **Sentiment Analysis** | **Classification** |
| **4** | **Inventory Management** | **Regression** |
| **5** | **Image Search** | Clustering |

|  |  |  |
| --- | --- | --- |
| **S.No** | **Your Problems** | **Type** |
| **6** | **Game Difficulty Adjustment** | **Classification** |
| **7** | **AI Opponent Development** | **Reinforcement** |
| **7** | **Game Recommendation** | **Association** |
| **8** | **Cheating Detection** | **Classification** |