**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** | Image recognition to diagnose disease | Classification |
| **2** | Demographic models for public policies | Regression |
| **3** | Predictive models for future sources of contagion in cities | Regression |
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| **S.No** | **Education** | **Type** |
| **1** | Online education that adapts to the student's study rhythm by recommending lessons | Reinforcement type |
| **2** | Visual recognition to help blind people with learning | Classification |
| **3** | Short-time summaries of extensive content | Reinforcement type |
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| **S.No** | **Banking** | **Type** |
| **1** | Credit allocation | Classification |
| **2** | Allocation of discounts and benefits | Classification |
| **3** | Predictive portfolio collection | Classification |
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| **S.No** | **E-Commerce** | **Type** |
| **1** | Recommender based on past purchases on the platform | Clustering |
| **2** | Loyalty system for people with better transactional behavior | Clustering |
| **3** | Targeted advertising on the e-commerce platform | Clustering |
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| **S.No** | **Your Problems** | **Type** |
| **1** | models to buy the best stocks on the market | Regression |
| **2** | Algorithm to manage my finances | Regression |
| **3** | voice assistant for language learning | Reinforcement type |
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