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.	**Natural Language Processing for Medical Records** AI systems that can analyze unstructured data in electronic health records (EHRs) to extract important medical information and improve patient care.	**Classification/Clustering**

S.No	Education	Type
1.	**Personalized Teacher/Teaching Assistant** Creating AI-based teaching assistants that adapt to individual student needs and learning paces.	**Reinforcement Learning**
2.	**AI-Enabled Black Board** AI that transforms whatever the teacher writes on the board into digital documents and sends them to students.	**Classification/Regression**
3.	**Handwritten Notes to Text (Improvement)** Developing better handwriting recognition systems to convert notes into digital text.	**Classification**

S.No	Banking	Type
1.	**Unified Banking Dashboard** An AI system that consolidates all bank accounts, transactions, and credit card bills in one place, offering personalized financial insights and helping users manage their spending more effectively.	**Clustering/Classification**

S.No	E-Commerce	Type
1.	**AI-Enabled Shopping Cart** A smart shopping cart that assists with finding products, tracking preferences, and making personalized recommendations.	**Association/Recommendation**
2.	**Product Locator in Large Stores (Walmart/Costco)** An AI tool to help customers quickly locate products in large retail spaces like Walmart or Costco, saving time and improving the shopping experience.	**Classification/Clustering**

S.No	Your Problems	Type
1.	**AI Cooking Assistant-** An AI assistant that helps users with cooking by offering precise measurements, cooking progress updates, and feedback on whether a dish is prepared properly, possibly using sensor data.	**Reinforcement Learning**
2.	**Safe Delivery Scheduling for Parcels–** An AI system for delivery companies that allows customers to choose safer delivery times, reducing the chances of package theft.	**Classification/Regression**