AI4GA Activity 3.1: Types of Computer Decisions

Directions: Using the Google Slides, define the different types of reasoners that computers use. Then use your definitions to tell what reasoners each of the examples below are using. Give a one sentence explanation of how you know which reasoner it is.

Types of computer reasoning	Explanation in your own words (Don't just copy and paste!)
Classification	It places an input in one of a set of fixed categories (classes).
Prediction	Estimates a numerical value.
Recommendation	Suggest items from a set based on a person's interests and preferences.
Planning and scheduling	Finds efficient ways to accomplish complex tasks.

Name the Reasoner:

	Example	Name the type of reasoner the example uses	One sentence explanation of why this is the correct reasoner
1.	YouTube	recommendation	Choose videos you'll like.
2.	Auto Filters in Email	classification	Spam detection, mail sorting.
3.	Movies (ticket sales)	prediction	Estimates ticket sales based on the movie's characteristics.
4.	Tesla Range before recharging	prediction	Estimate how much further you can drive.
5.	Handwriting Recognition	classification	Classifies squiggles as particular letters or numbers.
6.	Package Delivery	planning and scheduling	Plans the most efficient route for delivering packages.
7.	Advertisement	recommendation	Choose ads most likely to interest you.
8.	Carmax	prediction	Estimate market value of a used car.
9.	Waze / Google Maps	planning and scheduling	Plans best route based on traffic conditions
10.	License Plate Reader	classification	Recognizes letters and numbers in an image
11.	Tiktok Discover	recommendation	Choose videos you'll like.

12.	Face Tagging	classification	Recognizes a person from an image of their face.
13.	Amazon Warehouses	classification / planning and scheduling	Reading barcodes on packages is classification. Deciding which truck to load a package onto is planning and scheduling.
14.	Hurricane Tracker	prediction	Predict how the hurricane will move.
15.	Sneaker Resale	prediction	Predict the market value of sneakers.