① Machine Learning problem statement (churn Prediction) ?

→ Problem statement :-

→ Predict wheather a customer will churn (yes/No) based on their purchase behaviour.

⇢ Input futyred :-
→ Age
→ Gender
→ Income
→ Number of purchases
→ Subsription duration.
→ Total purchases
→ Tenure monthes
→ Avg order value

→ Target variuble
• churn (0 = No , I = yes)

→ Types of machine Learning
• Syprvised Learning
- Binary classification

(2) what are sensors? (with numpy Explanation)?

→ A sensors is a device that detects or measures a physical quantity and converts it into data (usually electrical signals)

→ Example with numpy:

→ temperature = np.array ([30, 31, 32, 31, 30])

np.mean (temperature)
np.max (temperature)
np.min (temperature)

→ Sensors collect real world data → Numpy processes that data efficiency