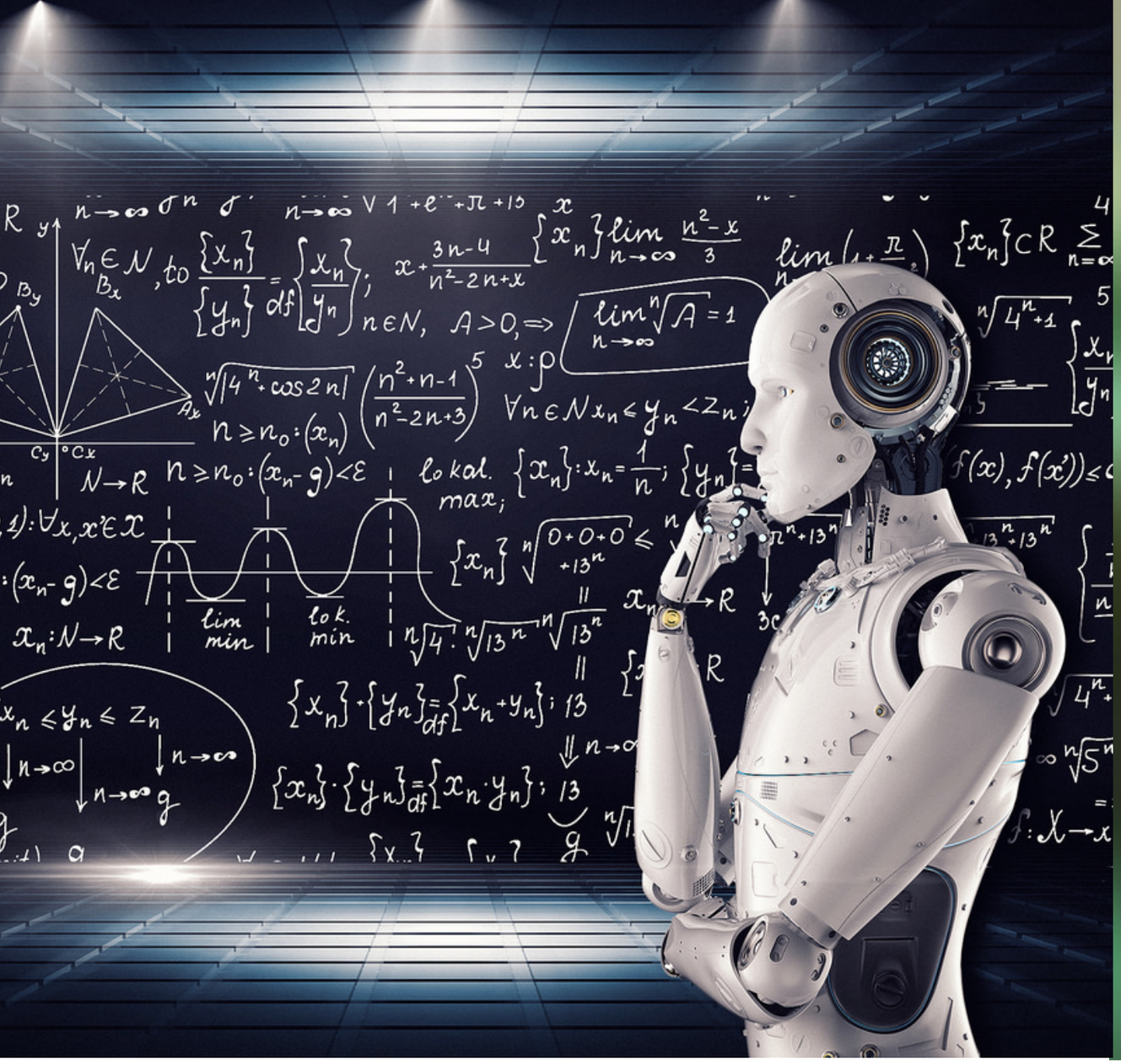


SUPERVISED LEARNING

Rajat Modi

“Supervise”-d Learning

Boss

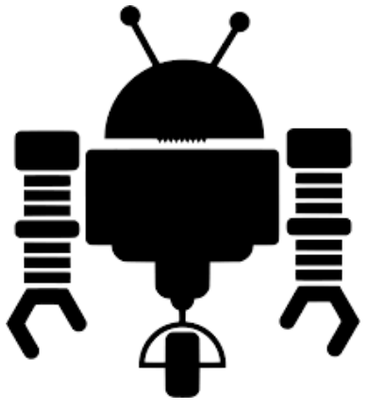
Output:

- **Yearly Rating**
- **Salary Increment**

Features:

- **Time to complete tasks**
- **Number of Violations**
- **Punctuality**

AI (Machine Learning Algorithm)



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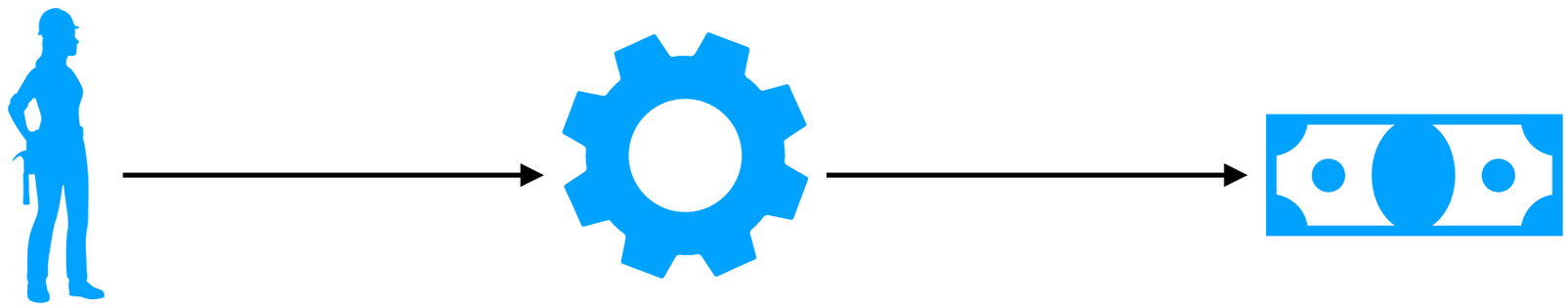
SUPERVISED LEARNING



Features:

- **Time to complete tasks**
- **Violations**
- **Punctuality**

ML Model

Labels:

- **Rating**
- **Increment in Salary**

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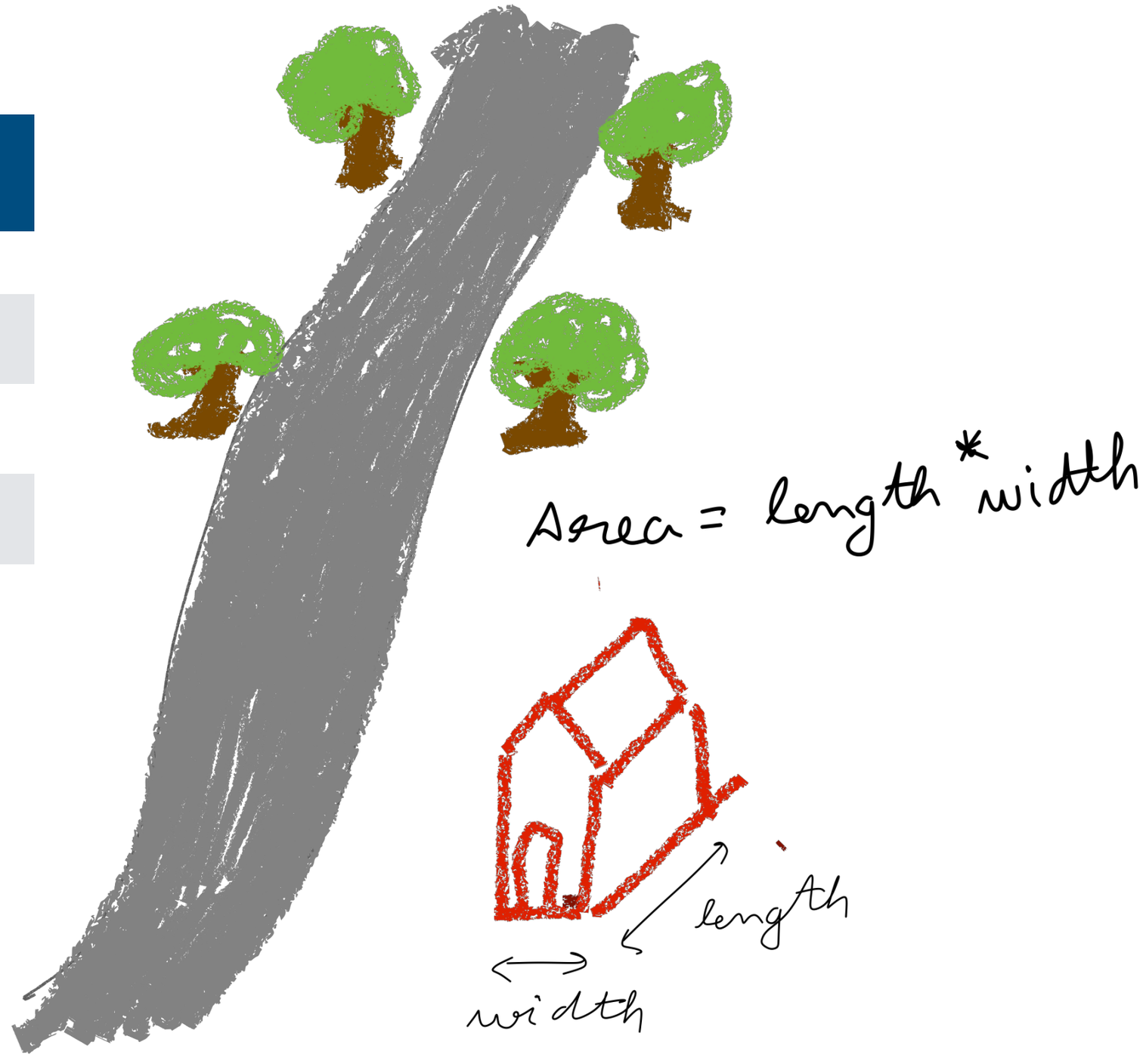
Area of House(Sq Feet)	Price(INR)
100 Sq feet	INR 50
200 Sq Feet	INR 80
300 Sq Feet	?
400 Sq Feet	INR 200



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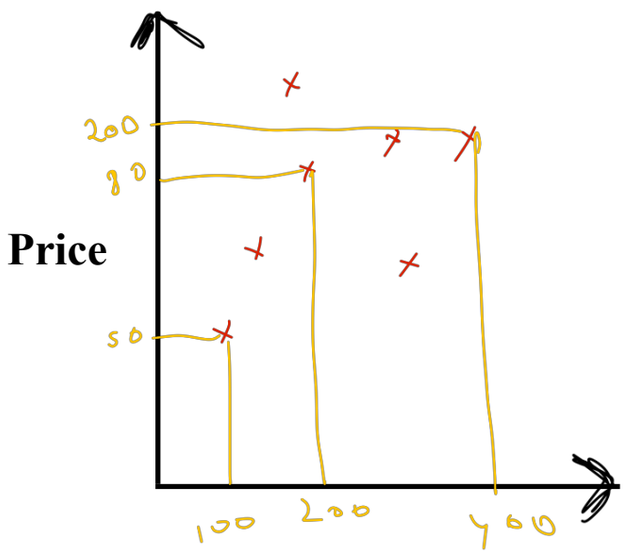
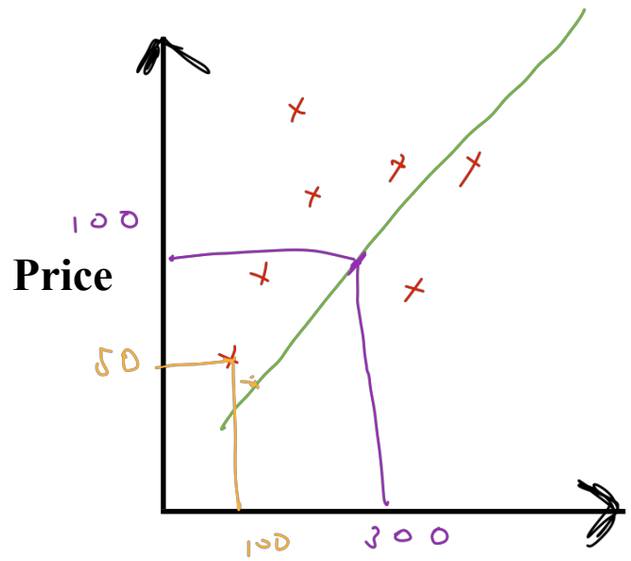
Area of House(Sq Feet)	Price(INR)
100 Sq feet	INR 50
200 Sq Feet	INR 80
300 Sq Feet	?
400 Sq Feet	INR 200

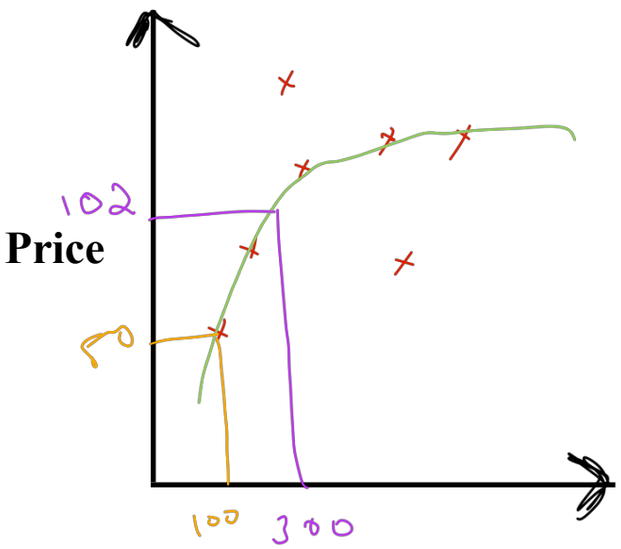
What can you do?

- Search for an House with given Size
- Use a Machine Learning Approach





Regression



Area of House(Sq Feet)	Price(INR)
100 Sq feet	INR 50
200 Sq Feet	INR 80
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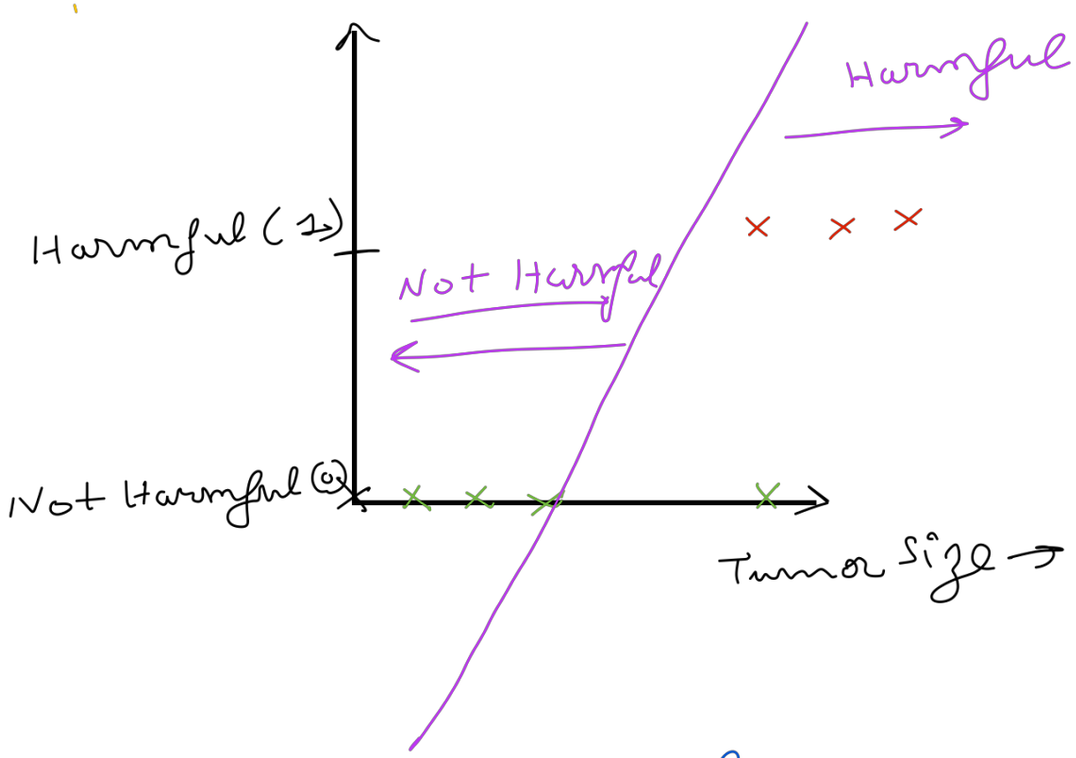
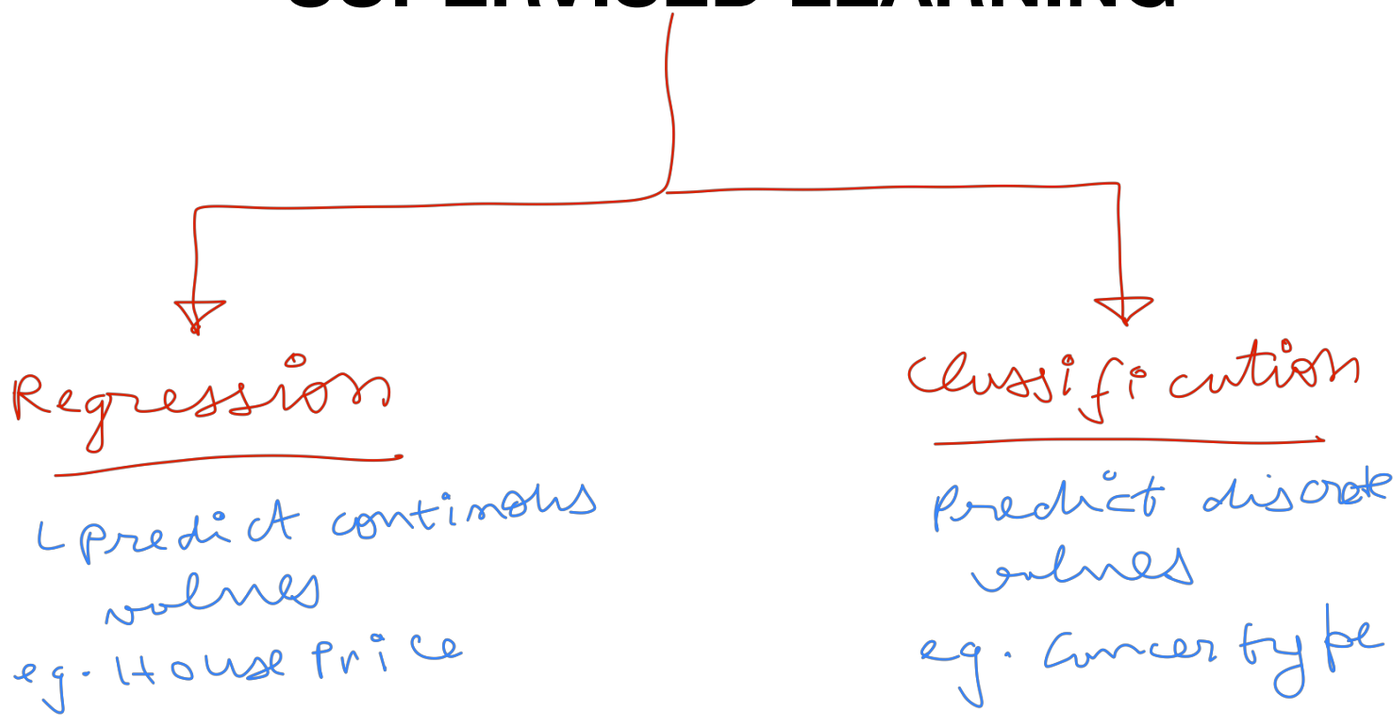


Classification problem
(0/1)

SUPERVISED LEARNING



Case1: Suppose you have to check your inbox, and decide whether an e-mail is spam/not spam.

Case2: You have a data on the number of items sold in the last few days. You Have to predict the number of items which will be sold in future.

Classify each of these tasks as a regression/classification problem .

THANK YOU !!!!

Rajat Modi