# ML 21/04/25

What are the steps that involved in ML:  
   
**Problem Definition** – Understand what you want to predict or classify.  
**1st step** **Data Collection** – Gather relevant data.  
**2nd step** **Data Pre-processing** – Clean raw data to meaningful data.   
**3rd step** **Exploratory Data Analysis (EDA)** – converting data to visual for easy to understating   
**4th step** **Feature Engineering** – we can create anyting with FutureEngineering  
after this   
**5th step** **Model Building**   
 **Supervised Learning Models**  
2types   
1.classification is known as categorical  
 if we are going to predict gender of a human (like this) we use classification method

1. regression is know as continues  
   Predicting the **price of a house** based on features like size, location, and age

Unsupervised Learning Models  
Reinforcement Learning Models  
Deep Learning Models we can use

**Model Training** – Train the model on your data.  
**Model Evaluation** – Test model performance.  
**Model Deployment** – Put the model into use.  
**Monitoring & Maintenance** – Track and improve over time.

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