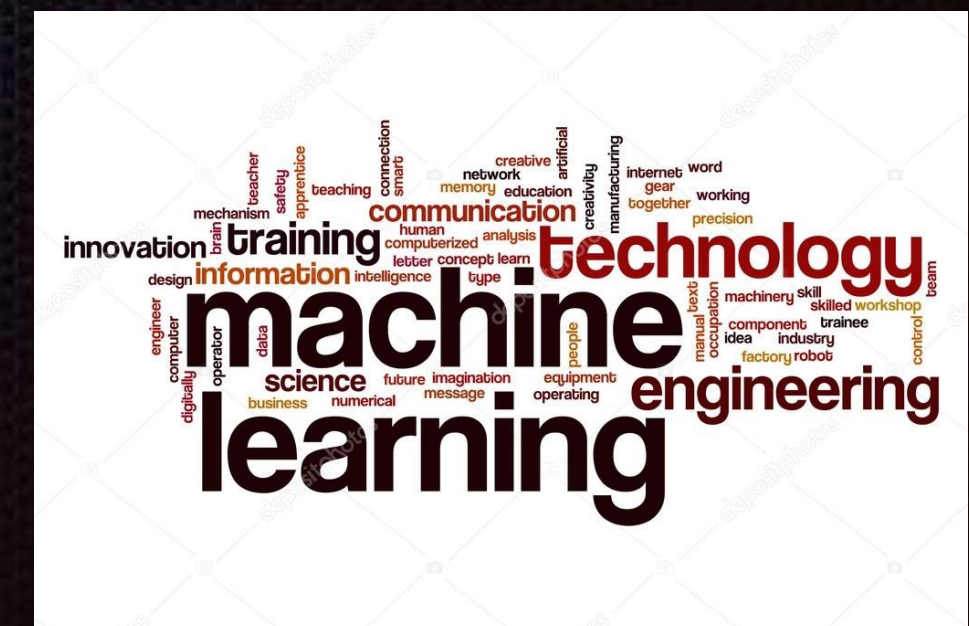


# What is ML?

- ✧ Algorithms that ingest data and adapt to mimic and express inherent data patterns
  - ✧ Learns from data
  - ✧ Can provide predictions
- ✧ Algorithms can be
  - ✧ Simple (linear regression)
  - ✧ Complex (decision trees)
  - ✧ Indecipherable or magical (neural networks / deep learning)





# What is ML?

- ✦ Algorithms that are mainly meant for prediction
  - ✦ Supervised learning
- ✦ They cannot often express why the predictions happen
  - ✦ What factors influenced the prediction in what way?
  - ✦ It's a function of the complexity of the model and our inability to express or comprehend that complexity easily
- ✦ Increasing research, emphasis on “explainable AI” or XAI
  - ✦ LIME, SHAP, others
  - ✦ Intrinsically explainable models (Microsoft)

