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مغزهای ماشینی  
انسان یا پرده؟

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The diagram illustrates two applications of Machine Learning:

- Handwritten Digit Recognition:**
  - Input:** Images of Hand-written Numbers (e.g., 6, 7, 1, 5, 8, 4).
  - Algorithm:** Generic Machine Learning Algorithm.
  - Output:** Classified digits (1, 2, 3, etc.).
- Spam Detection:**
  - Input:** Emails (ایمیل ها).
  - Algorithm:** Generic Machine Learning Algorithm.
  - Output:** Classified as Spam (هرنامه) or Not Spam (غیر هرنامه).

有監督 (Supervised) 學習是根據已知標籤的數據集來訓練模型，模型學習後可以對新數據進行預測。
 無監督 (Unsupervised) 學習則是根據沒有標籤的數據集來訓練模型，模型學習後可以對新數據進行分類或聚類。

## Supervised Learning

Supervised Learning is a type of machine learning where the model is trained on a dataset with known outcomes. The goal is to learn a function that maps input features to output labels. This is often used for classification and regression tasks. For example, in a house price prediction task, the input features might be the number of bedrooms, the size of the house, and the location, while the output label is the price of the house. The model is trained on a set of examples where the input features and the output label are known. Once the model is trained, it can be used to predict the output label for new input features.

| قیمت فروش | محلہ / منطقه | فوت مربع | اتاق خواب ها |
|-----------|--------------|----------|--------------|
| \$250,000 | Normaltown   | 2000     | 3            |
| \$300,000 | Hipsterton   | 800      | 2            |
| \$150,000 | Normaltown   | 850      | 2            |
| \$78,000  | Normaltown   | 550      | 1            |
| \$150,000 | Skid Row     | 2000     | 4            |

The Training Data is a dataset used to train a machine learning model. It consists of input features and output labels. In the example above, the input features are the number of bedrooms, the size of the house, and the location, and the output label is the price of the house. The model is trained on this data to learn a function that maps the input features to the output label. Once the model is trained, it can be used to predict the output label for new input features.

| قیمت فروش | محلہ / منطقه | فوت مربع | اتاق خواب ها |
|-----------|--------------|----------|--------------|
| ???       | Hipsterton   | 2000     | 3            |

The goal of supervised learning is to learn a function that maps input features to output labels. This is often used for classification and regression tasks. For example, in a house price prediction task, the input features might be the number of bedrooms, the size of the house, and the location, while the output label is the price of the house. The model is trained on a set of examples where the input features and the output label are known. Once the model is trained, it can be used to predict the output label for new input features.

### سوال ریاضی اول- کلید پاسخ معلم

$$1) \quad 2 \quad 4 \quad 5 = 3$$

$$2) \quad 5 \quad 2 \quad 8 = 2$$

$$3) \quad 2 \quad 2 \quad 1 = 3$$

$$4) \quad 4 \quad 2 \quad 2 = 6$$

$$5) \quad 6 \quad 2 \quad 2 = 10$$

$$6) \quad 3 \quad 1 \quad 1 = 2$$

$$7) \quad 5 \quad 3 \quad 4 = 11$$

$$8) \quad 1 \quad 8 \quad 1 = 7$$

[illegible]

□□□□□ □□□□ □□□□□□□□ Un supervised learning

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| محلہ / منطقہ | فوت مربع | ایاق جواب ها |
|--------------|----------|--------------|
| Normaltown   | 2000     | 3            |
| Hipsterton   | 800      | 2            |
| Normaltown   | 850      | 2            |
| Normaltown   | 550      | 1            |
| Skid Row     | 2000     | 4            |

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```
def estimate_house_sales_price(num_of_bedrooms, sqft, neighborhood):
    price = 0

    #
    price += num_of_bedrooms * .841231951398213

    #
    price += sqft * 1231.1231231

    #
    price += neighborhood * 2.3242341421

    #
    price += 201.23432095
    return price
3
```

(3)

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<https://www.shabakeh-mag.com/information-feature/artificial-intelligence/14096/%DA%86%DA%AF%D9%88%D9%86%D9%87-%D9%85%DB%8C%E2%80%8C%D8%AA%D9%88%D8%A7%D9%86%DB%8C%D9%85-%D8%AF%D8%B1-%D8%B9%D9%85%D9%84-%D8%A7%D8%B2-%DB%8C%D8%A7%D8%AF%DA%AF%DB%8C%D8%B1%DB%8C-%D9%85%D8%A7%D8%B4%DB%8C%D9%86-%D8%A7%D8%B3%D8%AA%D9%81%D8%A7%D8%AF%D9%87>