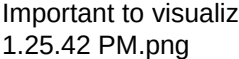


## 1 | Types of ML

- Supervised
  - Linear regression
    - \* Good for predicting the outcome of independent variables
    - \* We are trying to find a line –  $y=mx+b$
    - \* What about with more features?
      - Just add dimensions
      - Not as visual, but math is the same
    - \* Helps to relate variables
    - \* Not good for:
      - What type of tree is x based upon height and width?
      - Not a numeric output
      - Can't just assign numbers to words, as 0-1-2 is related to each other; say, model says its a combo of 1 and 2, comes out to a 1, which DOESN'T work. (idk why that auto capitalized)
    - \* Very fast and simple, which makes output easy to understand
    - \* =Assumes linear relation between incomes and outputs=
      - Important to visualize our data even after we run out model 
      - These all have the same best fit line, the same x mean, y mean, x y standard dev, and a bunch more
- Unsupervised
- Semi-Supervised

## 2 | Used for:

- Classification
- Clustering
  - Find related data points
- Regression
- Translation
- Anomaly Detection
  - KBPoker<sub>WithWes</sub> Poker Story
- Generation

## 3 | Important terms:

Weights Labels