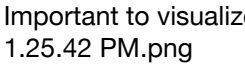



Types of ML

- 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  1.25.42 PM.png
 - 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

Used for:

- Classification
- Clustering
 - Find related data points
- Regression
- Translation
- Anomaly Detection
 - _With_Wes Poker Story
- Generation

Important terms:

Weights Labels