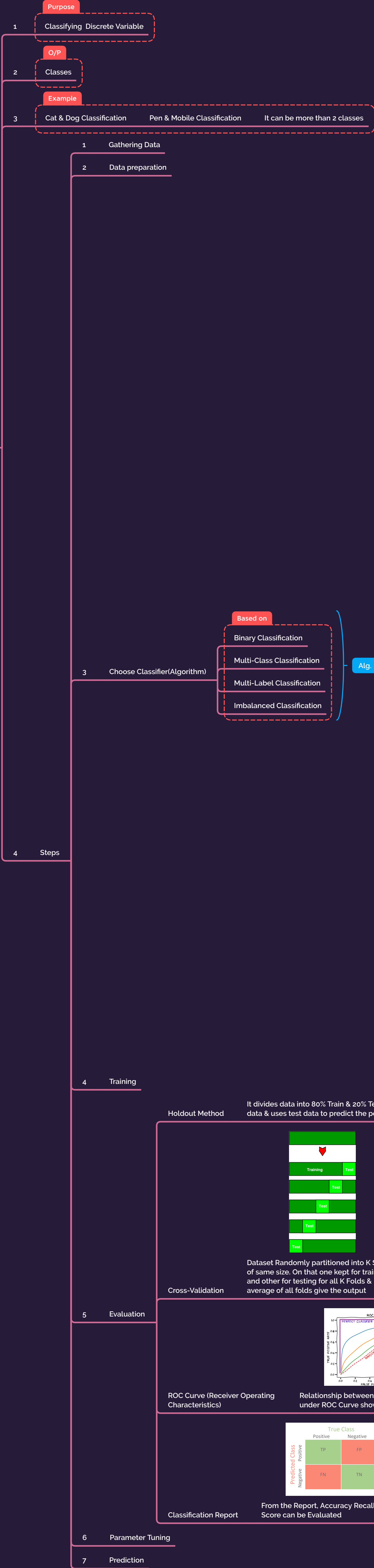


Supervised Learning

Classification



4

Training

5

Evaluation

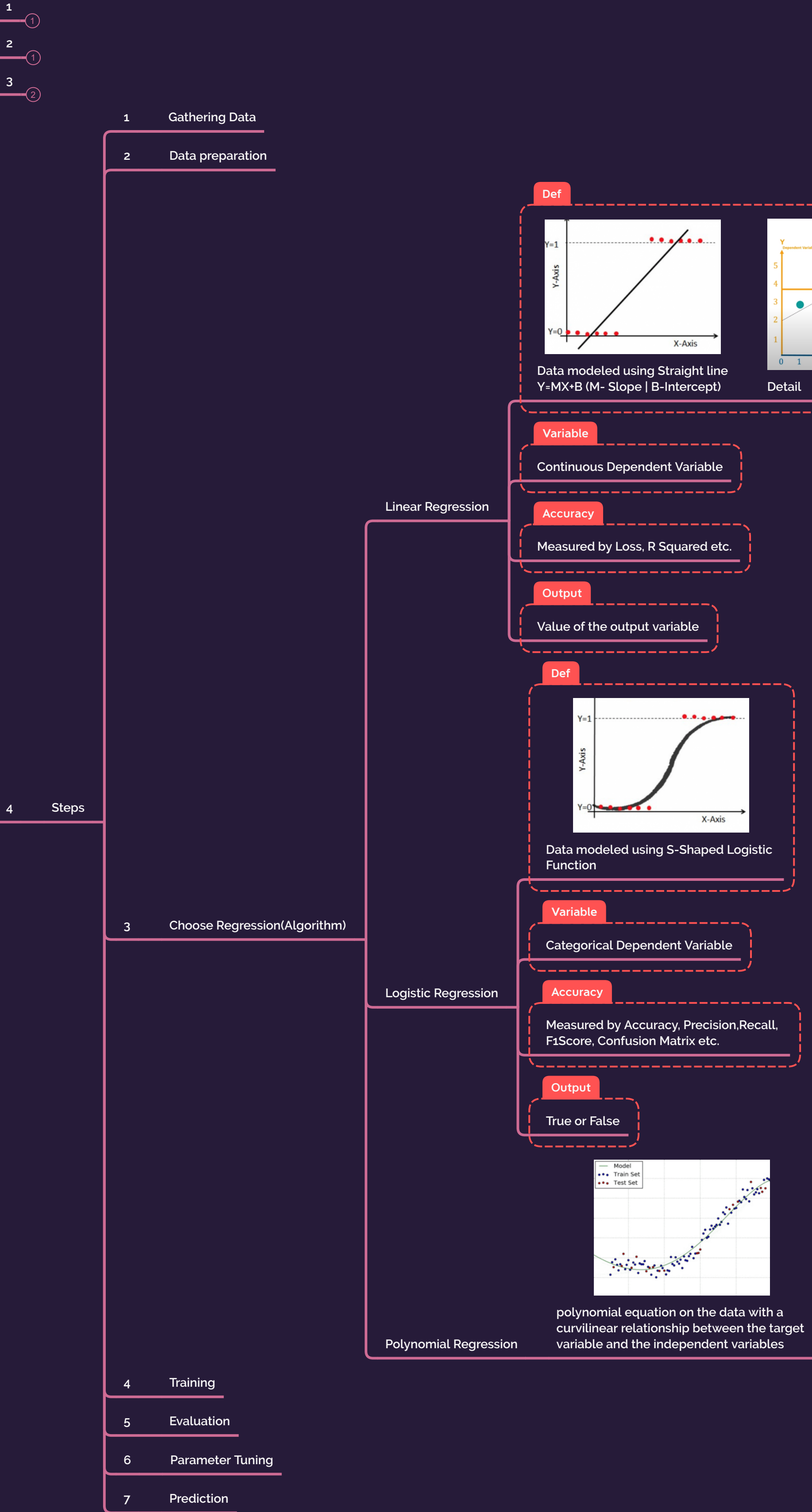
6

Parameter Tuning

7

Prediction

Regression



4

Steps

4

Training

5

Evaluation

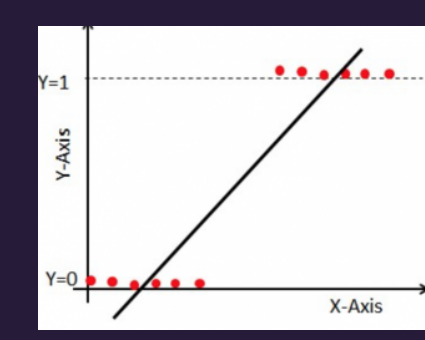
6

Parameter Tuning

7

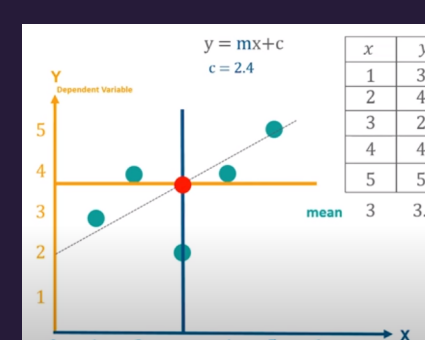
Prediction

Def



Data modeled using Straight line
 $Y = MX + B$ (M- Slope | B-Intercept)

Detail



$$y = mx + b$$
$$c = 24$$

x	y	x - x̄	y - ȳ	(x - x̄)²	(x - x̄)(y - ȳ)
1	3	-2	-0.6	4	1.2
2	4	-1	0.4	1	-0.4
3	2	0	-1.6	0	0
4	5	1	0.4	1	0.4
5	5	2	1.4	4	2.8

mean

3

3.6

Σ

10

Σ = 4

$$m = \frac{\sum (x - \bar{x})(y - \bar{y})}{\sum (x - \bar{x})^2} = \frac{4}{10}$$

m = 0.4

b = 2.4

b = 24 - m * 3