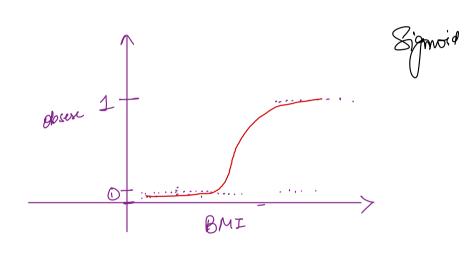
La predicting Continuous Jemmerical Values weight

Which of the following techniques is used to address overfitting in linear regression?

- a) Ridge regression.
- b) Normalization.
- c) Principal Component Analysis (PCA).
- d) Variance Inflation Factor (VIF).



$$\frac{d}{dy} = \frac{1}{1+e^{-\theta}} = 0 \leq d(y) \leq 1$$

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y = -0 o(y) - 0  $\sigma(\gamma) \rightarrow 1$ y = 00 o(A) = 0.2 y = 0

- Do we want best fit line?

-1 Do we nout best line for separation.

- Supavised algorithm
- binary classification

Non-differentiable

What happens when the input to the sigmoid function is a very large negative value?

- A) The output becomes negative
- The output approaches 0
  - C) The output approaches 1
  - D) The output becomes undefined.

A company is building a credit scoring model to predict risk of default. Which function can be used to map the model's output to a probability between 0 and 1?

- A) Sigmoid function.
- B) Linear function.
- C) Step function.

D) Exponential function.
Correct Answer: A) Sigmoid function.

Probability & Rikelihood ? (HN)  $= p^{\gamma} / (-p)^{(1-\gamma)}$ 

 $-y^{(i)}\log(\hat{g}^{i})-(1-y^{i})\log(1-\hat{g}^{i})$ 

