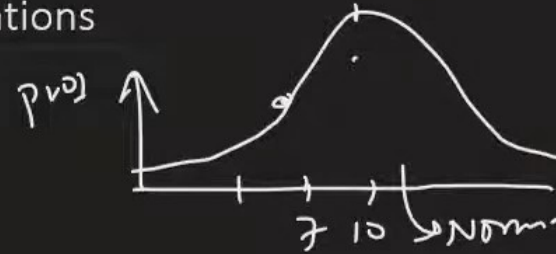




Mathematical Transformations

Friday, April 16, 2021 5:21 PM



FE

feature transformations



Mathematical trans

Normal distribution

- 1) log trans
- 2) Reciprocal
- 3) power (x^2 / x^3)

- 1) Box-Cox
- 2) Yeo-Johnson

Statistic

MA

Linear Reg
Logistic

100 Days of ML

- Day 12 - Setting u...
- Day 13 - End to En...
- Day 14 - Framing t...
- Day 15 - Working...
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Mathematical Transformations

Function Transformer

How to find if data is normal?

QQ Plots

Log Transform

Other Transforms

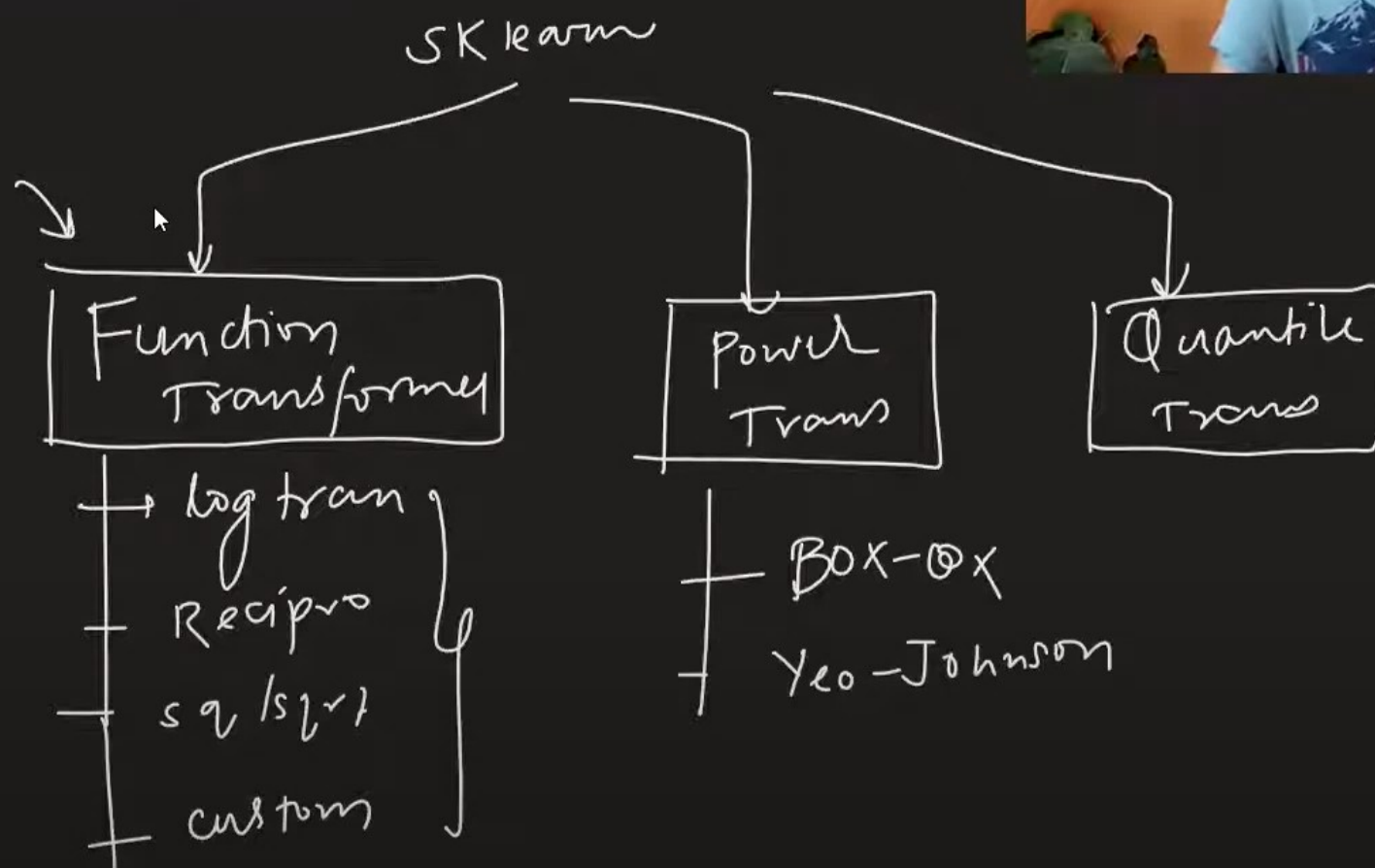
Example

Function Transformer | Log Transform | Reciprocal Transform | Square Root Transform



Function Transformer

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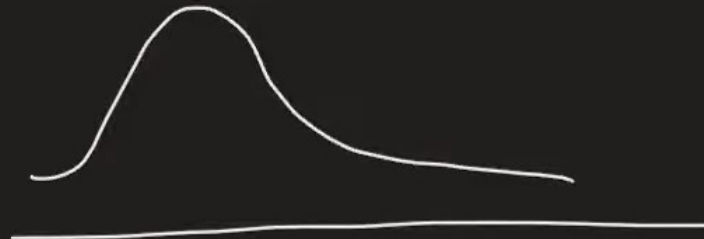




How to find if data is normal?

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`sns.distplot`



`QQ plot`



`pd.skew() = 0`

statistics

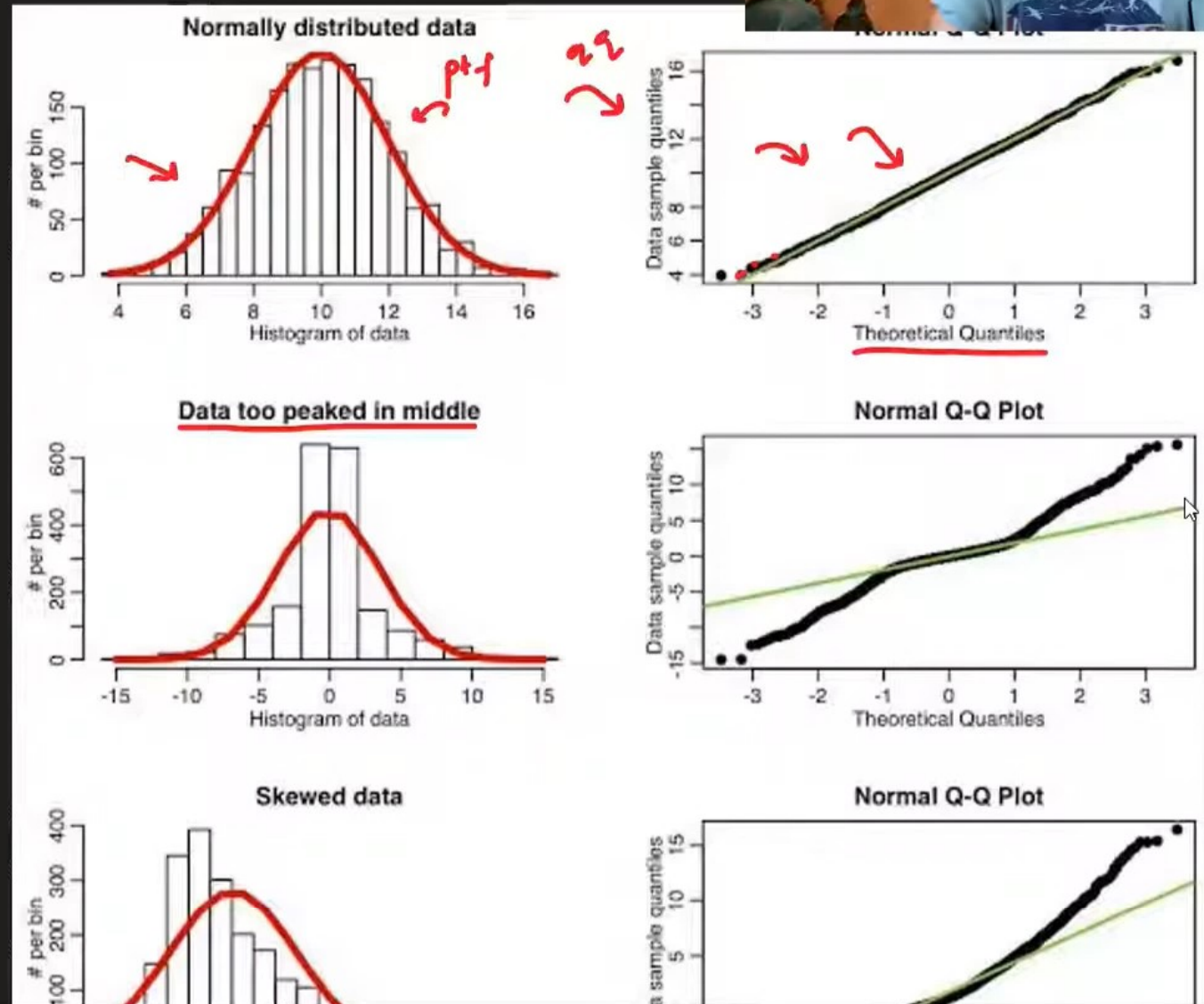


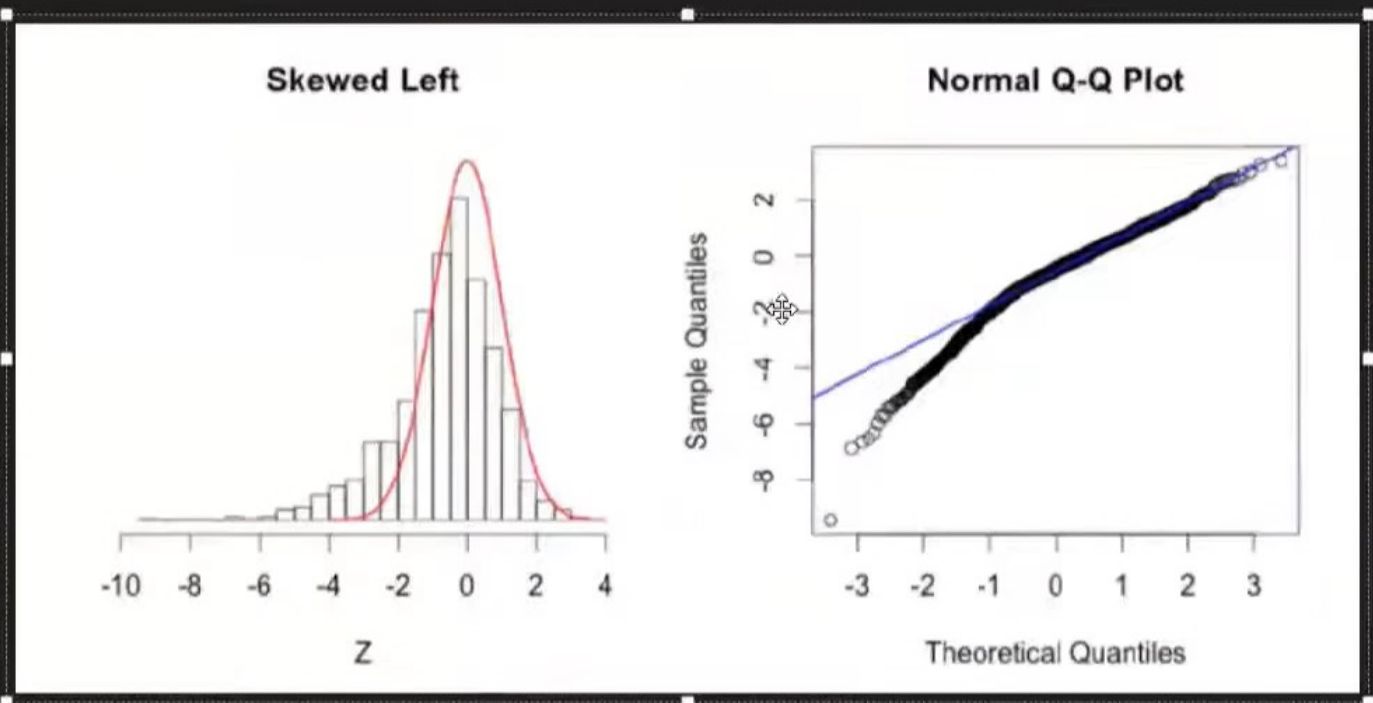
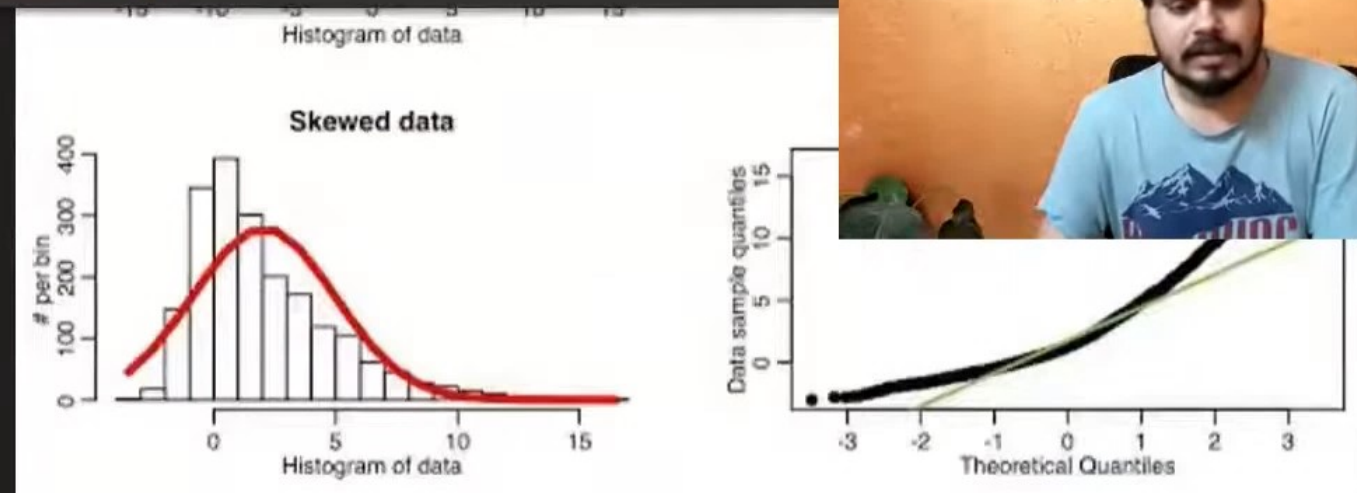


QQ Plots

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100 Days of ML

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Mathematical Transformations

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+ Add section

+ Add page



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Mathematical Transformations

Function Transformer

How to find if data is normal?

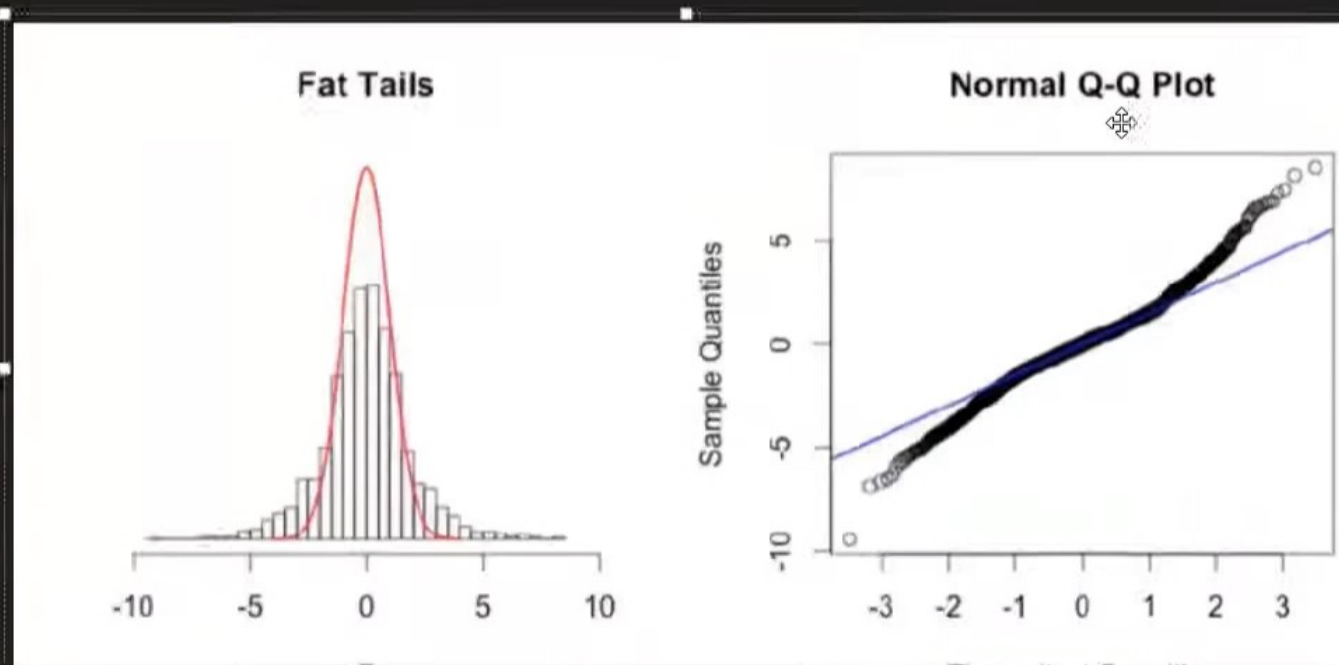
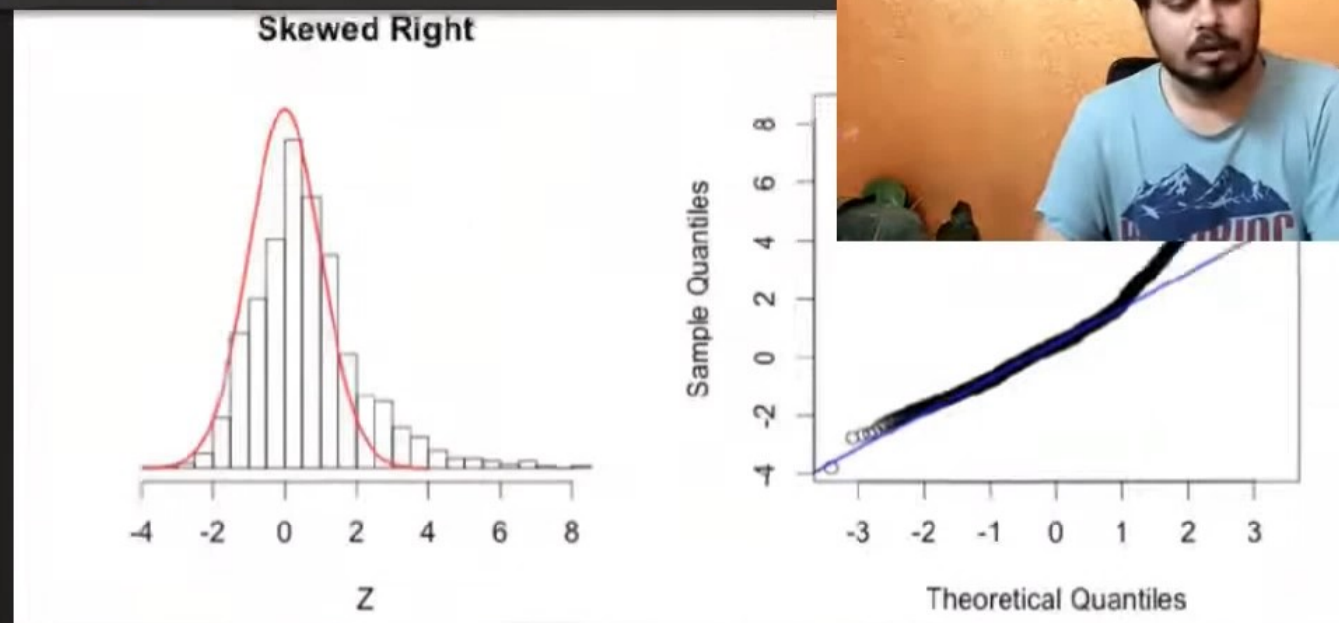
QQ Plots

Log Transform

Other Transforms

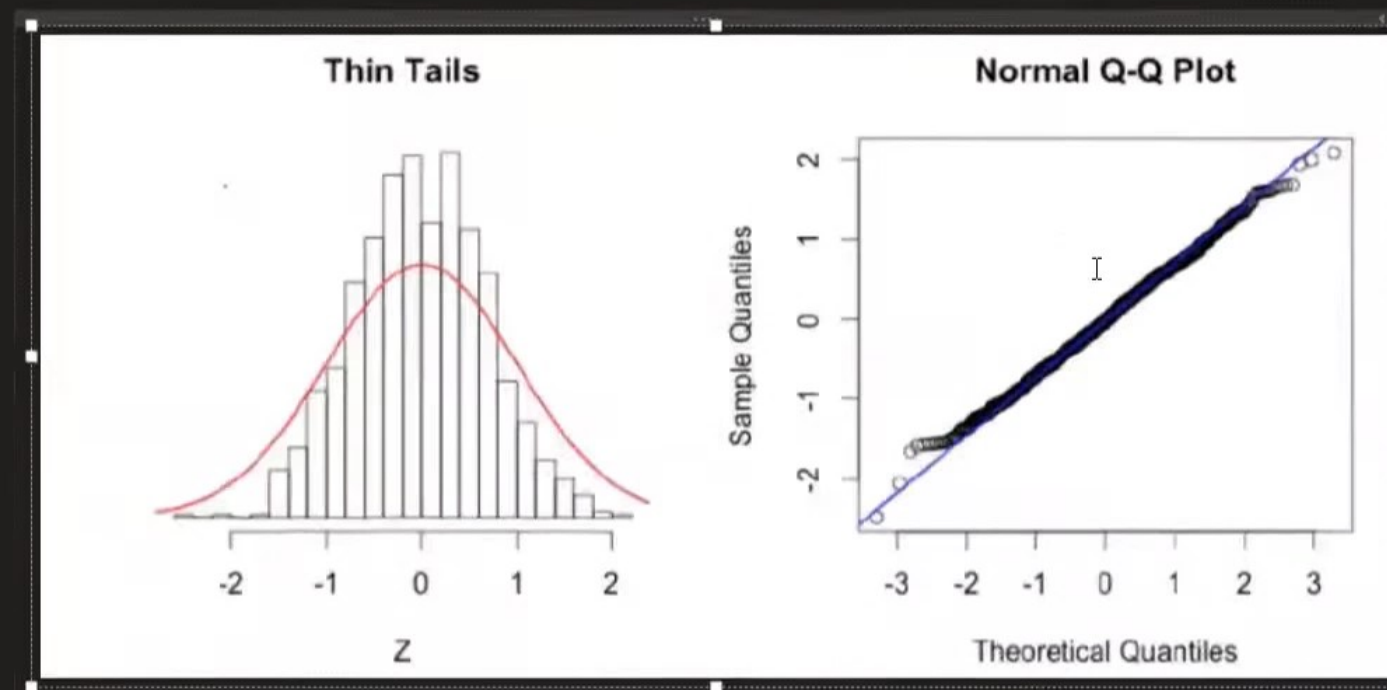
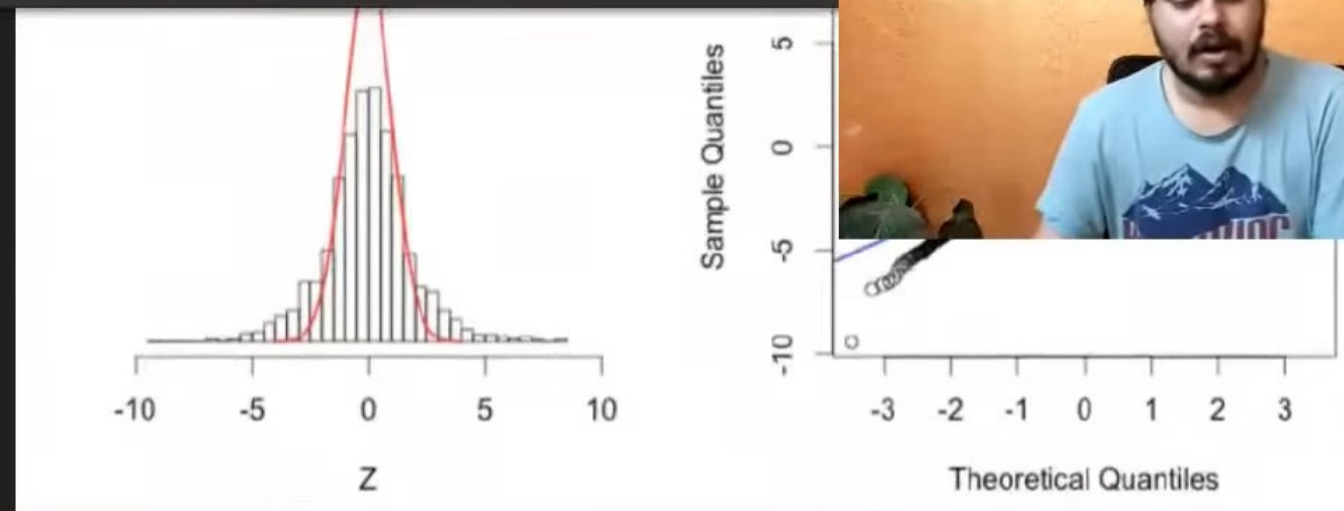
Example

+ Add section + Add page



100 Days of ML

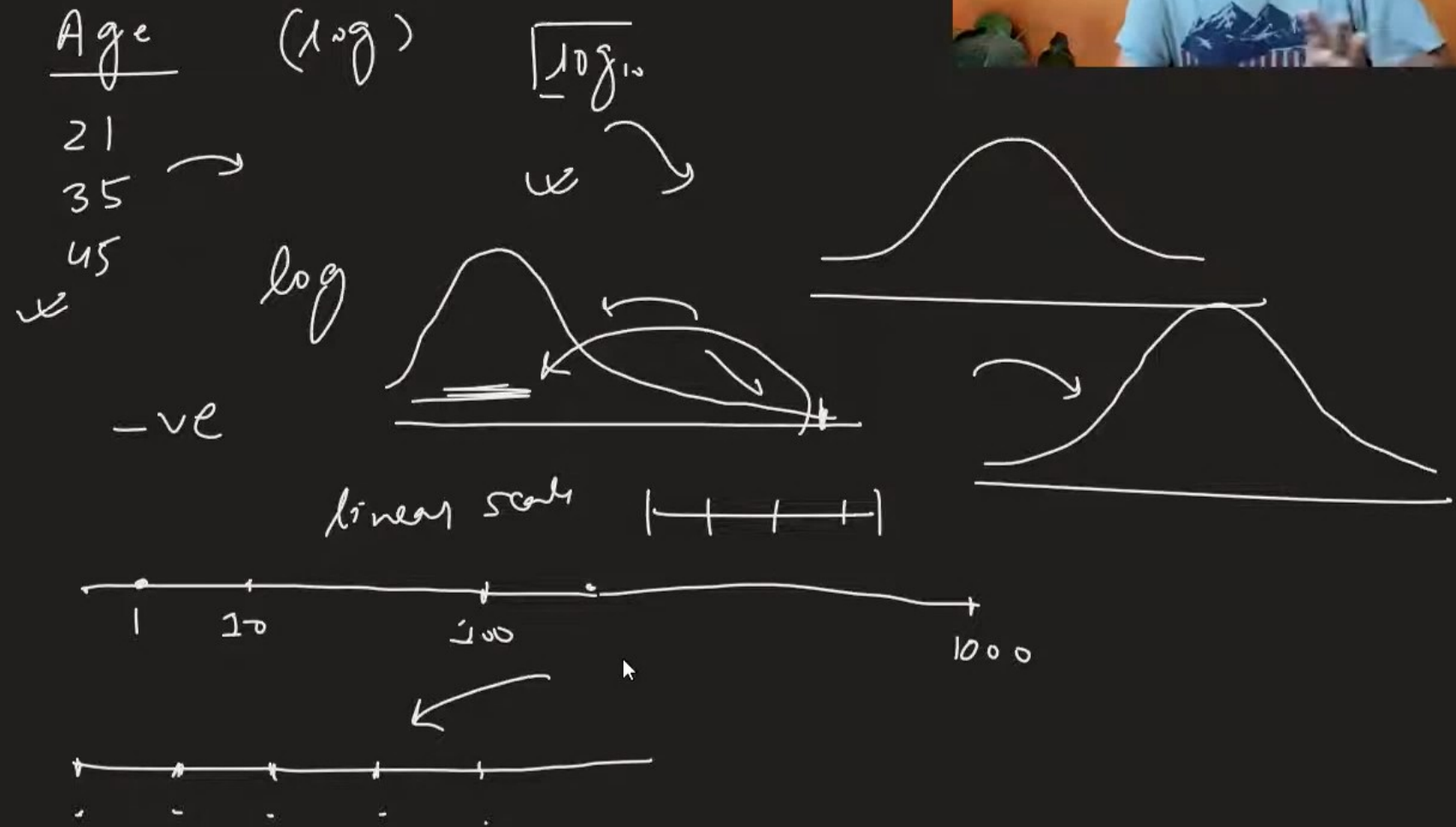
- Day 12 - Setting u... Mathematical Transformations
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Log Transform

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Mathematical Transformations

- Function Transformer
- How to find if data is normal?
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- Example

Other Transforms

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Reciprocal $1/x$



$\text{sq}(x^2)$
left skewed



$\text{sq} \sigma + \sqrt{x}$
 $\rightarrow \text{sq} \sigma \rightarrow$

