

OneNote for Windows 10

Home Insert Draw View Help

100 Days of ML

- Day 23 - Feature E...
- Day 24 - Standardi...
- Day 25 - Normaliza...
- Day 26 - Ordinal E...
- Day 27 - One Hot E...
- Day 28 - ColumnTr...
- Day 29 - Pipelines
- Day 30 - Function T...
- Day 31 - Power Tra...
- Day 32 - Discretizati...
- Day 33 - Working-...
- Day 34 - Working...
- Day 35 - Complete...
- Day 36 - Handling...
- Day 37 - Handling...
- Day38-Missing Indi...
- Day39 - KNN Impu...
- Day40 - Iterative I...
- Day 41 - Outliers in...

What are Outliers?

Thursday, April 29, 2021 3:25 PM

marks

hr

marks

hr

What are Outliers?

When is outlier dangerous?

Effect of Outliers on ML algorithms

How to treat Outliers?

How to detect Outliers?

Techniques for Outlier Detection a...

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📖 100 Days of ML ▾

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Effect of Outliers on ML algorithms

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Linear Reg
Logistic Reg

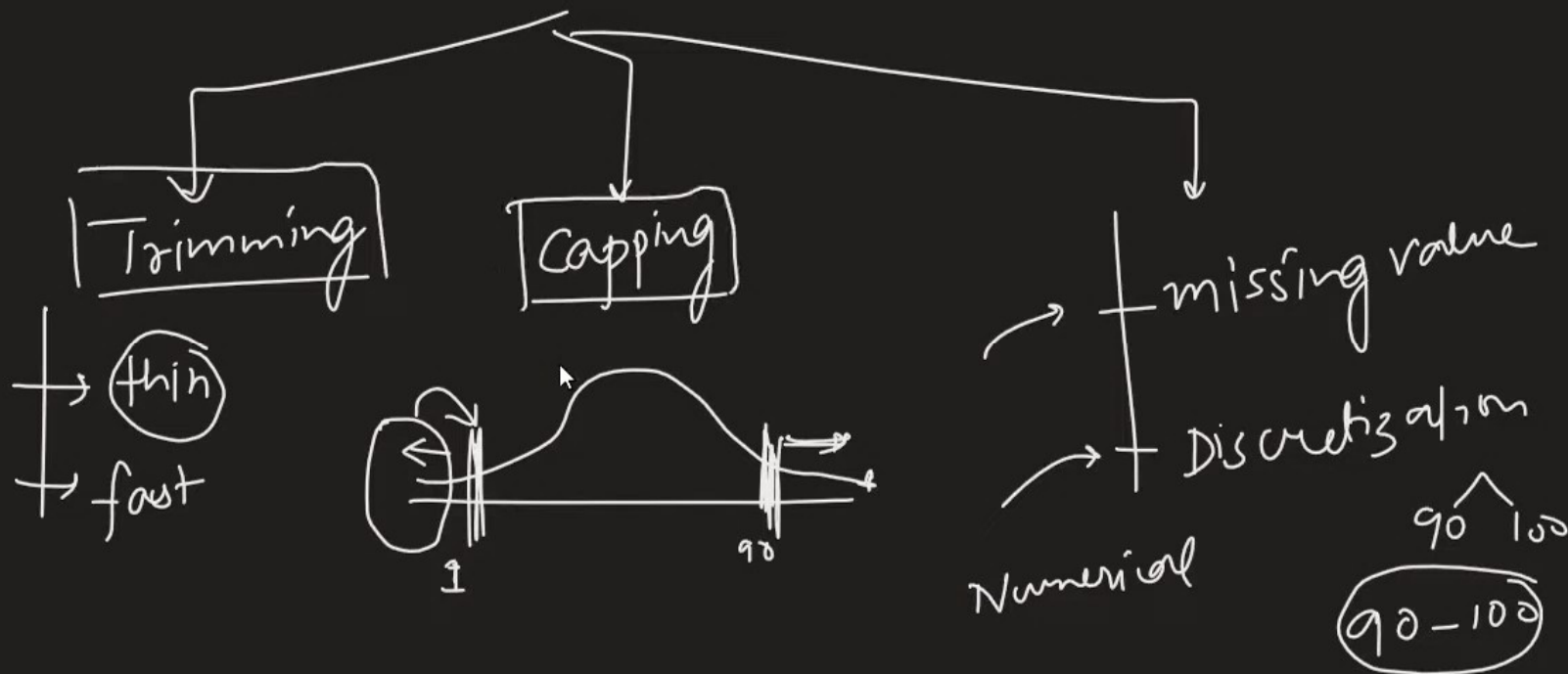
weights

Adaboost ✓
Deep Learning ✓

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How to treat Outliers?

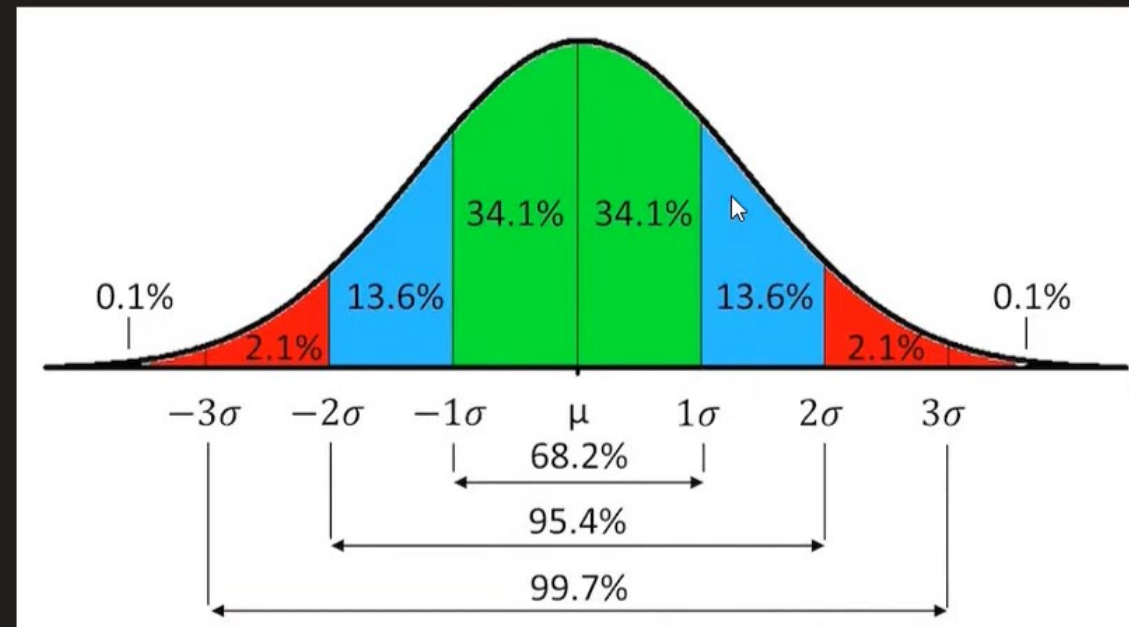
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How to detect Outliers?

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1. Normal Distribution


$$\begin{aligned} (\mu + 3\sigma) &> \\ (\mu - 3\sigma) &< \end{aligned}$$

2. Skewed Distribution

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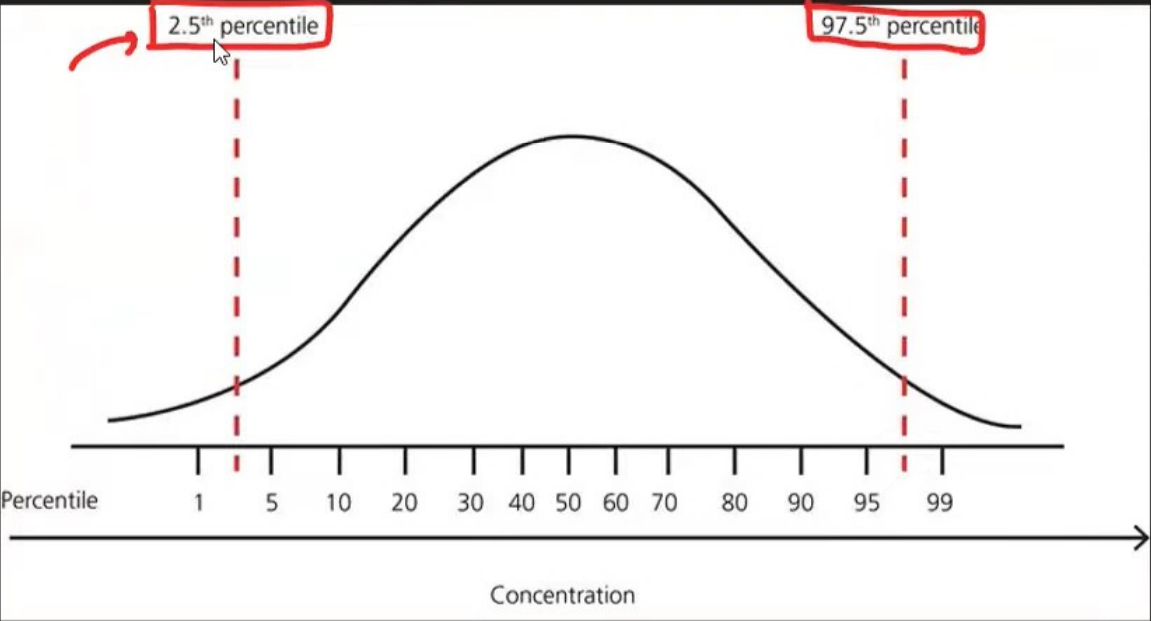
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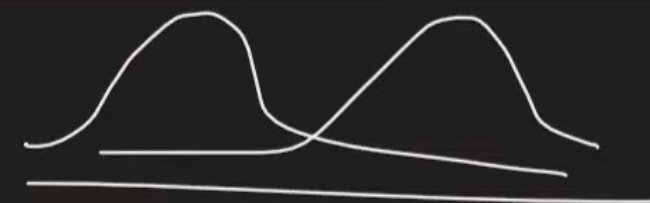
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3. Other Distributions

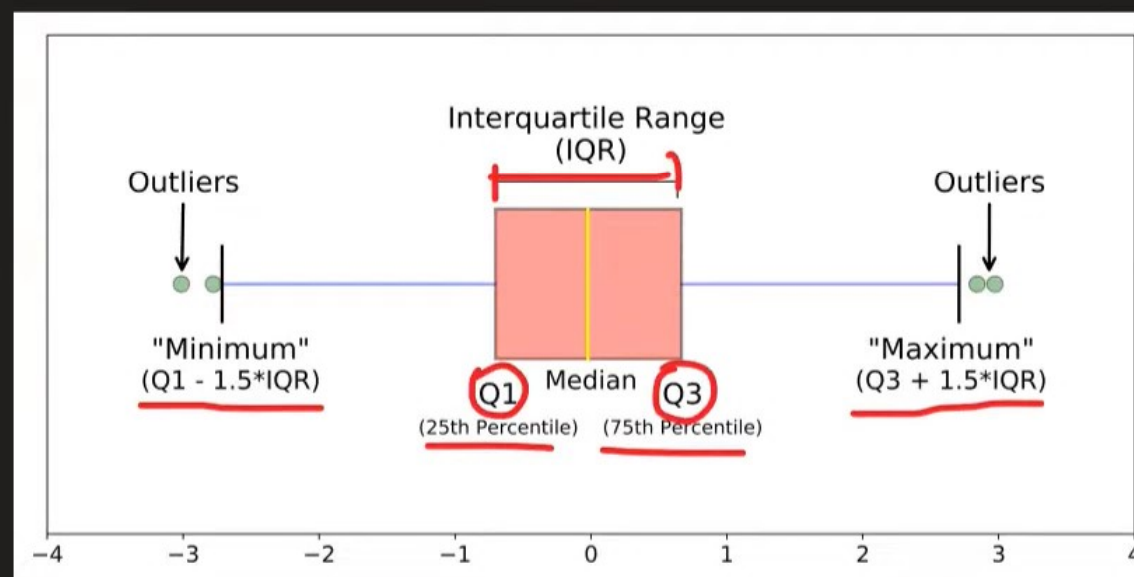


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2. Skewed Distribution



$$\text{min} = Q1 - 1.5 IQR$$
$$Q3 + 1.5 IQR$$



3. Other Distributions

2.5th percentile

97.5th percentile

