



100 Days of ML

- Day 30 - Function T...
- Day 31 - Power Tra...
- Day 32 - Discrtizati...
- 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...
- Day 42 - Outlier De...
- Day 43 - Outlier de...
- Day44 - Outlier De...
- Day 45 - Feature C...
- Day 46 - Curse of...
- Day 47 - PCA
- Day 48 - Simple Li...

Introduction

Simple Linear Regression

Code Example

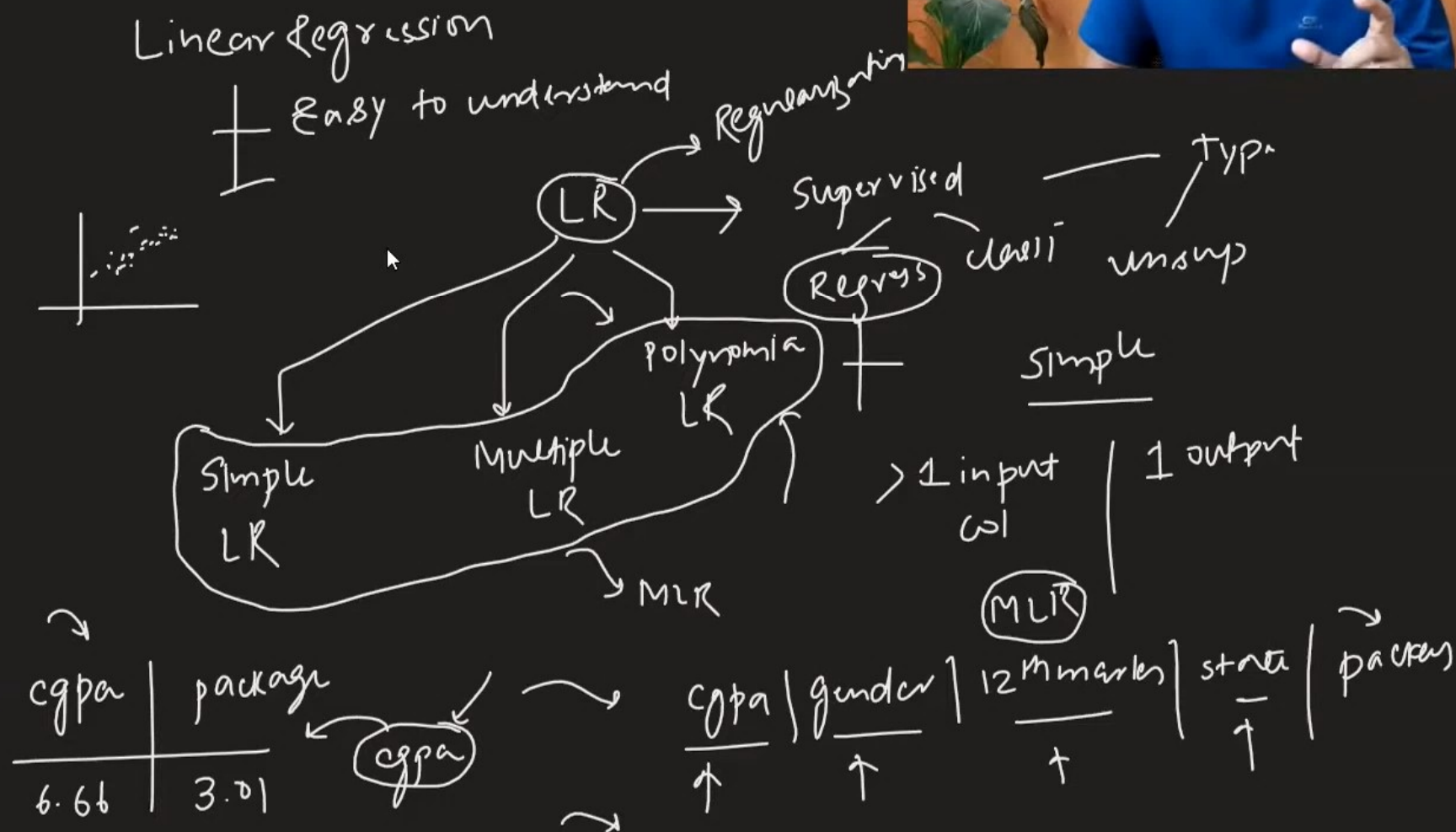
Intuition

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## Introduction

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# Simple Linear Regression

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# Simple Linear Regression

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The diagram illustrates the process of simple linear regression. It features a table with two columns: 'cgpa' and 'package'. The 'cgpa' column contains values 7.1, 4.7, 8.9, and 8.1, followed by an ellipsis. The 'package' column contains values 3.5, 1.2, 4.2, and 3.9, followed by an ellipsis. An arrow points from the 'cgpa' column to a box labeled 'model'. Another arrow points from the 'package' column to the same 'model' box. A third arrow points from a box labeled 'cgpa' (containing the value 3.5) to the 'model' box. A fourth arrow points from the 'model' box to a box labeled 'package' (containing the value 3.5). A fifth arrow points from the 'cgpa' box to the 'package' box. A sixth arrow points from the 'cgpa' box to the 'model' box. A seventh arrow points from the 'package' box to the 'model' box. A eighth arrow points from the 'cgpa' box to the 'package' box. A ninth arrow points from the 'cgpa' box to the 'model' box. A tenth arrow points from the 'package' box to the 'model' box. A eleventh arrow points from the 'cgpa' box to the 'package' box. A twelfth arrow points from the 'cgpa' box to the 'model' box. A thirteenth arrow points from the 'package' box to the 'model' box. A fourteenth arrow points from the 'cgpa' box to the 'package' box. A fifteenth arrow points from the 'cgpa' box to the 'model' box. A sixteenth arrow points from the 'package' box to the 'model' box. A seventeenth arrow points from the 'cgpa' box to the 'package' box. An eighteenth arrow points from the 'cgpa' box to the 'model' box. A nineteenth arrow points from the 'package' box to the 'model' box. A twentieth arrow points from the 'cgpa' box to the 'package' box.

cgpa	package
7.1	3.5
4.7	1.2
8.9	4.2
8.1	3.9
...	...

model

cgpa

3.5 Lpa

package









## Intuition

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$m \rightarrow$  weightage

$m \downarrow \uparrow$

$b \downarrow \uparrow$

$$y = mx + b$$

package =  $m \times \text{cgpa} + b$

$b = 0$

$$\text{package} = m \times \text{cgpa} \quad \text{exp} \rightarrow 0$$

package =  $m \times \text{exp} + b = 0$

$p = m \times \text{exp}$

$b = 0$

exp | package offset

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