## GRADIENT BOOSTING ALGORITHM

1 Regression

1 CLASSIFICATION

Regresson Datant

Exp Degree Salary

2 B.E SDK

3 Masters Fox

5 Masters 80K

6 PHD 100K

Exp Degree Salary
2 B.E SDK
3 Masters FOX
5 Masters 80K
6 PhD 100K

FSK

Skps

1) Creak a Base Model

Solary Exp Degree 2 SDK -25K B.E 75K 3 -5K TTK Maskers FOIL 5 Maskus 5k 80K 75k 6 PHD ZIR look TICK FSR

Skps

1) Creak a Base Model

Average = 50+70+80+100 = 75

## Skps

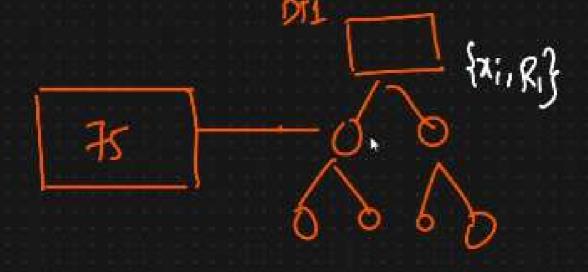
1) Creak a Base Model

Arciage = 50+70+80+100 = 75

@ Compute Residuals, Error

Freeze = 50+70+80+100 = 75

- @ Compue Residuals, Error
- 3 Construct a Decision Tree Consider inputs Ni and 9/p Ri



Rz Solony Exp Degree -25K 2 SOK B.E 75 R 3 TK Maskers FOR 5 Maskus 5K 3 80K Ask 6 PHD ZIR 20 look TYK FSR Skps

1) Creak a Base Model

Average = 50+70+80+100 =75

Resord 75 (-23) = 75 - 23 = 52 {Overfilling}

56	Ne	quentus ou			DOG MIZE	500500		
	Exp	Degree	Salary	ŷ	(y-ŷ) Ri	R2	ŕ	R <sub>3</sub>
-	→ 2	B.E	SOK	FER	-25%	-23	72.7	-22.7
	3	Masters	FOL	TK	-SK	-3	74.7	-4.7
	5	Maskrs	80K	75k	5k	3	_	-
	6	PHD	look	FR	ark	20	-	-
			FSR					
	Skps							
	() (Yeak	a Base	Model					
			Average	= 50+	70 +60+1	100 = 7		

= 75-2.3 L= Learning (0 to 1) L=0.1 =) 75+ 0.1 (-3) = 75 - 0.3 = 74.7 {(21, R3)}

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Exp	Degree	Salary	ŷ'	Ri	R2	٧٦	R <sub>3</sub>	Ry
2	B.E	SpK	FER	-25K	-13	72.7	-22:7	-
3	Masters	FOR	Ttk	-SK	- 3	74.7	-4.7	-
5	Maskes	80K	75K	5 k	3	-	-	-
6	PHD	look	75K	20cm	20		-	-
		FSK						
Skps								
() (Yeak	a Base	Model						

Average = 50+70+60+100 -75

