and Revord Preducted = 75+0.1(-3) = 74.7

me min find for all record.

| Moro, calmentate Rs =              | off. How arthal - y complanted),   |
|------------------------------------|--|
| -22·7                              |  |
| 4·7<br>4·7                         | prince of the second of the se |
| 23                                 |  |
| Again, me mell &                   | ake R3 as ordered and constant   |
| next decision to                   | tee  |
| Ry Condp                           | nt of 2nd dewsion tores  |
|                                    |  |
|                                    |  |
| hike this, me in till the Residual | de Keep constanting devision toces<br>I gets reduced.  |
| > hesidnal should                  | decreense Rich   |
| Final Function                     | Base Learner   |
| F(x) zhoho(x)                      | $t  d_1  (h_1(x)) + d_2  (h_2(x) + d_3  (h_3(x)) + \dots $ $(Kn(x))$   |
| + dr                               | (Kn(2))  |
| F(x) 2 2 x                         | i hica) start marine and a special in i  |
|                                    |  |
| whorey d= heave                    | ring reale.  |
| The x so f                         | to the state of th |
| £ £.                               | A = (SK-) ho + SK - followick  |
|                                    | Recolabled = 454 or (-3) = 44  |
| , 10.                              | lite that me mind find for all secure  |

\* X gloost classifice (Extreme boradicit Boort) actorset (Approval - 0.5) (0.5 f) R1 Approval Salary Geedet .O. 4R.O. 52 -0.5 daken = 5010 B 0.42 0.58 data 0.5 < 250K 9 0.5 <250K -0.5 0 750K 0.5 1 750K 0.5 >50K -0-5 2250K Model. Base Coccading Deution Trees Borre Model Binary classification > Entire devition trees gets created in wadient Boost weate Denision Torces Calindate Similarity Meight. Probability Einstorly Weight = { (Residuals)2

EPo(1-Po) wood bused model beariner ontput) S.W( & 50k) = (-0.5+0.5+0.5-0.5)2 0.5 (1-05) +0.5(1-0.5) +0.5(1-05) +0.5(1-0.5) (Left Node) ( -0.5+0.5+0.5) 2 8 ( > 50K) 0.5(1-0.5) +0.5(1-0.5) +0.5(1-0.5) (Right Node)

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( -0,5+0.5-0.5-0.5+05+0.5) SWZ 0.5(1-0.5) + 0.5(1-0.5) +0.5(1-0.5) +0.5(+0.5) +0.5(1-0.5) (Root Node) + 0.5(1-0.5) + 0.5(1-0.5) 200142 Galante houry 0 +0.33-0.142=0.21 0.19 houn 2 build next repot, CREPIT 0.510.51-03 SW20.33 Thighest information gain node unelle get selected. Binary Classification > Linear Regression (hog loss) 7 0/p should be blu o tol in kinary classification, Thoy lodds) 2 rog (1-P) log (0.5) 2 5(1-0:1) 4 0.5(1-0 Binary classification. Model oups Model output 2580 + 2 (8. W) 2 Similarity Welg

and Record Model output = 5 (0+0.1(0.33))= 0.58 2 1te-10-10-110-33) god Record. Model Oup Output = 0 (0+0.1(0.33)) 20.58 1-1 e- (0+0.110.33) After this again, compute R2 and again weath next decision forces and so on fill mo get less residual. tinal ondpret 0/9 2 5 (Base rearmer + 24 CDT) + d2 (DT2) + an (DTn) use rog(odds) for borse learner > In a binary donerification, take défault floreshold as 0.5 but me com coreate over avon threshold as well. Los Multi claesification, me use softmons autinotion function. Lytor Binary does it icontion, me use sigmoid artivation tunction. F. 21 = 21 1 - 24 + 212 - 5 12 - 72 10 1 pome of F.

