Day Fellowship program in AI/ML - Problems for Rogresson

Assumpts of 6 person was selected the value of pain age (x variable)
and heir weight to demonstraked in the following table. Find the
repression equation and what to the predicted exight when age is
8.5 years

~ (23) 1330 133

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	y=ma+c	
(ch	Some com	
-	Ye	

\$ 4.692+ 92-3-5

7 12.510

-		1	302 4	. 2
-	4	************	-	19º
3	12	84	49	164
6	. 8	40	36	64
8	12	96	64	16.60
5	10	50	25	100
6	1.1	66	34	121
9	13	112	81	169
41	66	461	291	742

01 - 66-2911 - 41×401 =12504-4892

02=6 x 641 - 41x66 07 .923076

13 - 1920(x) + 4692

(2) A The following are to age (in years) and systohic blood greaters by 20 apprents, healths whath Find to regression equals what is to blood greater for a man aging 25 years

Age - 22(0) Agrico - 128(4)

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Asel	9 B.P(v)	xy	22	y <sup>2</sup>	
20	120	2400	400	14200	
43	128	5504	1849	1 6384	
63	147	8742	3969	19881	
26	126	3276	676	15876	
53	134	3102	2809	17956	
31	128	3968	961	16384	
58	136		3364	18496	
46	132	6072	2116	17424	
58	120		3364	19660	
30	14h s	81 20	4800	20736	
46	. 128	10080	2116	16384	
53	136	5888	2809	18496	
	146	7208	3600	21316	
20	124	8760	400	15376	
63	143	2480	3969	20249	
43	130	9009	1849	16900	
26	124	5590	676	15376	
31	121	3224	361	14841	
23	126	2259	961	15876	
-23	123	3 506	527	15129	
852	2630	2899	41553	31,7080	
0	2000	114486	4 16 78	343080	
		11440-			
		6 6 min	1000	91390 - 923015	
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01=	nをなり れをなり	- (2x)2 - (2x)2 - (2x)2 (2x)2 (2x)2	22.86° 22.86° 22.89320 6 × 4163	267	
0,=	n 5/23)  n 5/23  n 5/2	- (2x)2 - (2x)2 - (2x)2 (2x)2 (2x)2	2286° 2286° 2289720 6 × 4167	262 262 30 3-2240760 8-725904 5.484781	
0,=	n 5/23)  n 5/23  n 5/2	- (2x)2 - (2x)2 - (2x)2 (2x)2 (2x)2	2286° 2286° 2289720 6 × 4167	262 262 30 3-2240760 8-725904 5.484781	
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0,=	n 5/23)  n 5/23  n 5/2	- (2x)2 - (2x)2 - (2x)2 (2x)2 (2x)2	2289320 6 × 4163 109613 83335 83335	262 262 262 300 3-2240760 8-725904 5.484781 340-97542077 360-97542077	
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coefficient of and also find he employee spent at a coefficient of and also find he employee. Include plat of date in your aiscursor.

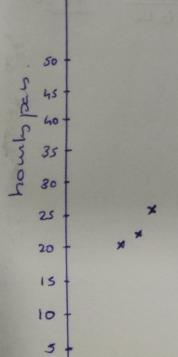
	2	5	22	y2	25
	5	25	25	625	125
	3	20	9	400	60
1	4	21	16	441	84
11	0	35	100	1225	350
1	5	38	225	1444	570
-	3+	139	375	4135	1189

$$0_1 = \frac{n \times x_3 - \times x \times y}{n \times x^2 - (\times x)^2}$$

0=

$$O_1 = \frac{5945 - 5143}{1875 - 1369} = \frac{802}{506} = \frac{1.58}{}$$

$$9 = \frac{5 \times 375 - 37 \times 139}{\sqrt{(5 \times 375 - 37^2)(5 \times 4135 - (139)^2}} = 7.$$



The table shows number gabsences, I in a calculus course and find ocam grade for 7 students. Find he corelation eadfricents also and the equation of Regression are and interpret he result

C	1	0	2	6	4	3	3
(4)	95	90	90	55	70	80	85

lorrelation coefficient = 
$$n \leq xy - \leq x \leq y$$
  
 $\sqrt{(n \leq x^2 - (\leq x)^2)} \times (n \leq y^2 - \leq y^2)$   
=  $\frac{7 \times 1380 - 19 \times 565}{\sqrt{(2 \times 75 - 197)} \times (2 \times 46775 - (565)^2)}$ 

Equation of line.

$$O_1 = \frac{n \times xy - \times x \times y}{n \times x^2 - (x)^2}$$

$$O_1 = \frac{7 \times 1380 - 19 \times 565}{7 \times 75 - 19^2}$$

$$=\frac{-1075}{164}=\frac{-6.55}{}$$

$$= \frac{42375 - 26220}{525 - 361}$$

honce Regression Equation is
$$y = -6.55(x) + 98.50$$

Level-Use he fe