cher 20 1 char 2 = \$ cher 10° 1 cher 2° = \$ => cher 10 H cher 2 = all. cher 1 = cher 2 = ... = cho 9. The are about 126569 people that has we seem I catrix. Among sleam, 6656 liers different out comes.

About 46690 les mol slen 20 antries 4778 has deflerant out comes. the one with the most activities les all its outcomes O. out come maen is

différences betneen: test & train. completely different people In cher to red, 46 is wissing from the fost date.

poher 4 one not too important... poher 3 0.001 50 -> 700 from & inêttel stert foul from freels Gfert aut stert tone from 39> Swt Beo fret.... aetre / freg aite 80 1 Sp 8

of # members of atout dave per preg per start date per freg per vegister date v per cartive laughter per last cartive per last cartive pro great dale - sp start gp lost date - per lost peo mem cetivity popinity

sp meess rate fold

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first register Rostl 30 # members

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Specient out ap success railed gp out len ! vekjister, freq rafe per first out peo ( out out ) pro # autivities act clase le reth at act. per register - gregister

is lock out How to link people year x dos of year. gs result. nees est late

New features: nearest date, 3p result. same type, neurost result. on the seme dete, cher 38 plays an important vola. number of week.

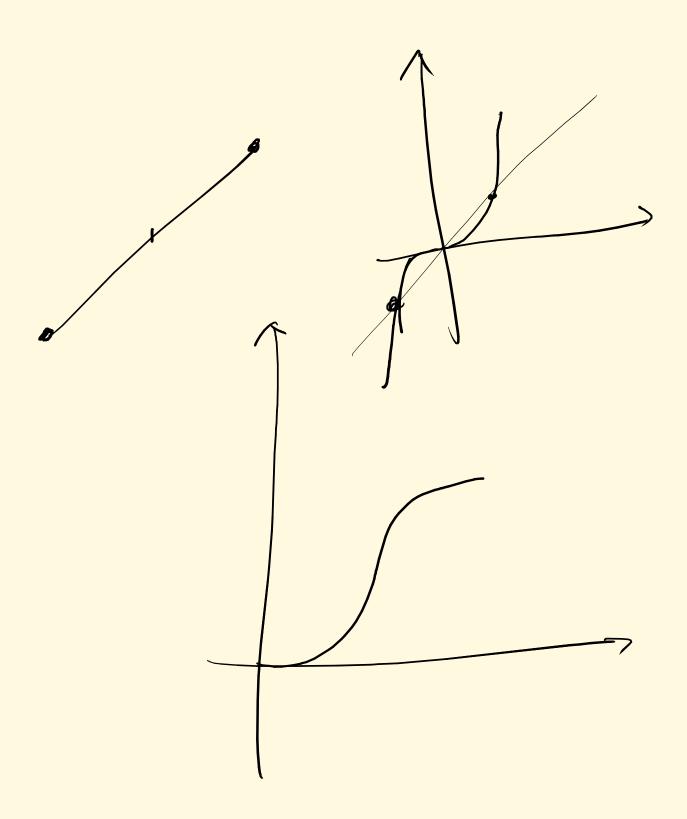
cher 70 x cher 38 role char 3 y mod cher 7 % cherzy prod cherzy cher3 prod cher 7 oher 9 rate. week num. veek num 8P rale.

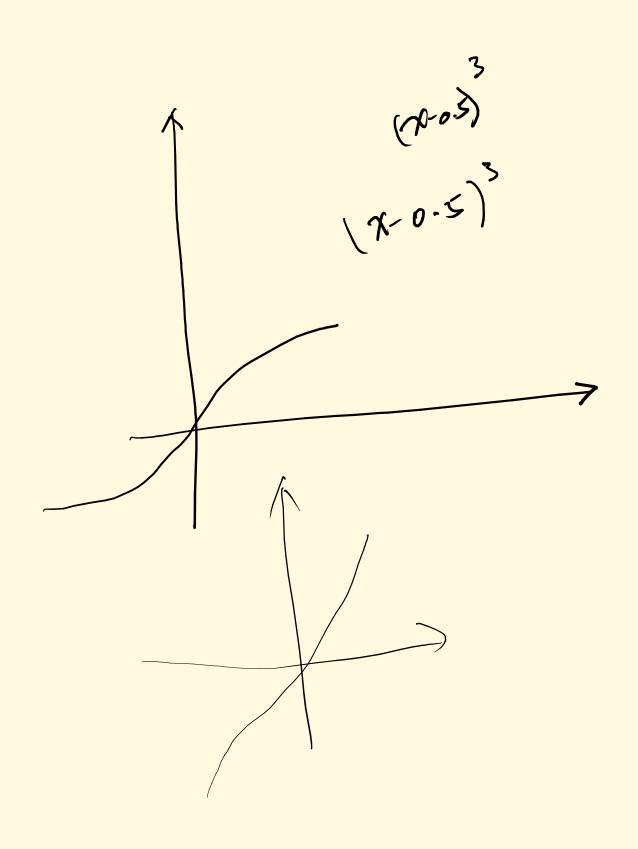
ap dute it solve Convot

chall we sown flings to share?

> 160 23

· Poc Allnumber for combineton of feetures. aplène instand d'Oiners function for regression make she training set to nimic she testing set as much or possible. use 50% to compute de auccess rate, and use-she oslur 50% to test the POC AUC score for the per for nance of the success





$$\begin{cases}
\frac{1}{1+2} = \left(\frac{2}{2} + \frac{7}{1+2} - 0.5\right) \\
\frac{1}{1+2} = \frac{7}{2} + 0.5
\end{cases}$$

$$\frac{1}{1+2} = \frac{7}{2} = \frac{1}{2} \left(\frac{2}{1+e^{-x}} - 1\right) \\
= \frac{1}{2} \left(\frac{2}{1+e^{-x}}\right) \\
= \frac{1}{2} \left(\frac{1-e^{-x}}{1+e^{-x}}\right)$$

$$\frac{1-e^{-x}}{1 \cdot e^{-x}} = \frac{e^{x}-1}{e^{x}+1}$$

1+5

$$S(-x)$$

$$= e^{-x} - 1$$

$$e^{-x} + 1$$

$$S(x) = \frac{e^{x}}{1 + e^{x}}$$

$$(x)S(x) - \frac{1}{2} = \frac{1}{5} \frac{e^{x} - 1}{1 + e^{x}}$$

$$2(1 - x) = \frac{e^{-x} - 1}{1 + e^{-x}} = \frac{1 - e^{x}}{e^{x} + 1}.$$

Our interpolation function should be ....

ao a1.

 $l(a) = 2 \left( a - a_0 \right) \left( a_1 - a_0 - 1 \right)$ 

Pw

$$f_{n}(x_{0}) = a_{0}$$

$$f_{n}(x_{0}) = a_{1}$$

$$f_{n}(x_{0}) = a_{1}$$

$$f_{n}(x_{0}) = \frac{2(\pi - x_{0})(\pi_{1} - \pi_{0})}{(\pi_{1} - \pi_{0})} - \frac{1}{2}$$

$$f_{n}(x_{0}) = \frac{2\pi}{1+e^{2\pi}} - \frac{1}{2} \left(\frac{e^{2\pi}}{1+e^{2\pi}} - \frac{1}{2}\right)$$

$$f_{n}(x_{0}) = \frac{e^{2\pi}}{1+e^{2\pi}} - \frac{1}{2}$$

$$f_{n}(x_{0}) = \frac{e^{2\pi}}{1+e^{2\pi}} - \frac{1}{2}$$

$$f_{n}(x_{0}) = a_{1}$$

$$f_{n$$

train together hard code of-14 for large of. See out put, what are the bad ones? feature engineering for grundl ggs.

50 % 5% 10/b. Q. 9 FP