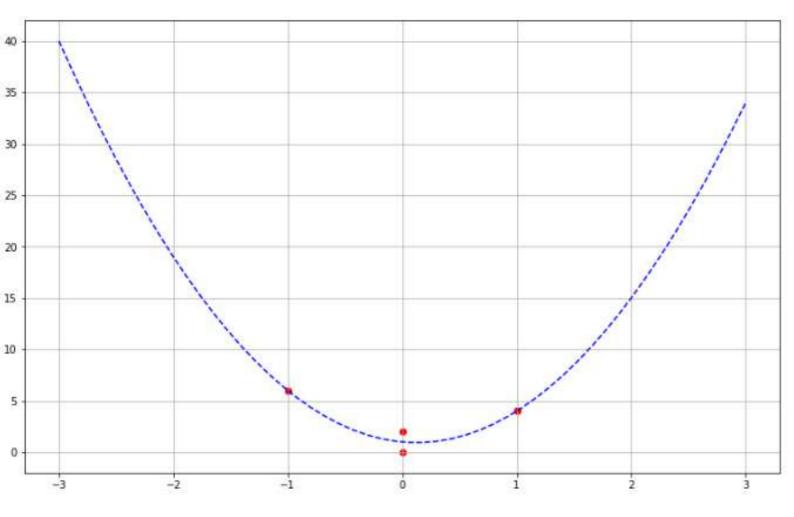
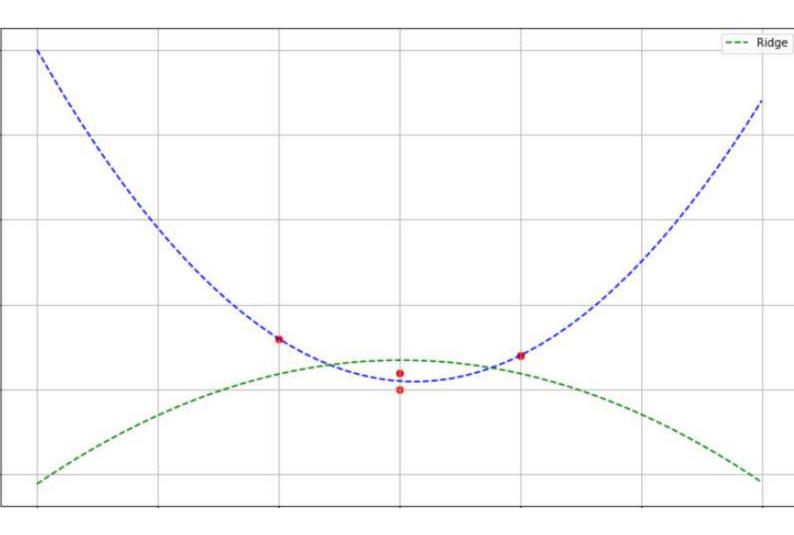
Дучающая видорка 3agara 3.1 2 1 1 0 0 -1
y 4 4 0 2 6 1) Uzognazume moren (X5, Y5) (x_1,y_1) (x_2,y_2) (x_3,y_3) 2) MHK que magam f(x)= Bo+B12+B222 = rapaden aryporciell Функушей $X = \begin{pmatrix} 1 & 1 & 2 & 2 \\ 1 & 1 & 2 & 2 \\ 1 & 1 & 2 & 2 \\ 1 & 0 & 2 & 2 \\ 1 & 0 & 2 & 2 \\ 1 & 0 & 2 & 2 \\ 1 & 0 & 2 & 2 \\ 1 & 0 & 2 & 2 \\ 1 & 0 & 0 \end{pmatrix} \in \mathbb{R}^{5 \times 3}$ $\beta = \begin{pmatrix} \beta_0 \\ \beta_1 \end{pmatrix} \in \mathbb{R}^{3\times 1}$ $\beta_2 \neq 0$ y= 14 0 ER 5x1 2 Meus: nemogan konne kongpamob un-kunnsupebamo 1/4-XB1/2->min

XTXB=Xy/·(XTX) $X^{T}y = \begin{pmatrix} 16 \\ 2 \end{pmatrix}$. Dua naxoxegenue, β preodazamente o crumoime $(X^{T}X)$. |5| |3| $|\beta_0|$ |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6| |6 $f(x) = 1 - x + 4xe^{2}$ 3) Rugae - perpeceus e 42 - pergus puzoujuen (A=1)
11 y - XB1/2 + AHOH ->min $X^{T}X + 2E = 15 1 3 1 1 0 0 1 6 1 3$ $X^{T}X + 2E = 15 1 3 1 + 10 0 0 = 1 4 1$ $X^{T}X + 2E = 15 1 3 1 + 10 0 0 1 = 15 4 1$



Del $\begin{pmatrix}
 6 & 1 & 3 & | & \beta_0 &$ Bul f(x) = 97 + 1 2 2 - 45 222 N42, Bagara: Bin chassification Предеказывает 1 дия 20. i 123456789 (200) 0,75 0.15 0.11 0.23 0.09 0.1 0.66 0.82 0.5 9(22) - QUELKA ANDEMERICOPHAI BENARMHOCMIC FPR = [0, 0, 0.2, 0.2, 0.8, 0.8, 1] TPR = [0, 0.25, 0.25, 0.75, 0.75, 1, 1] ROC-curve 0,95 AUC = S + S2 + S3 = 0,2.0,25 + 0,6.0,75+0,2=0,7



Эм кнассир икатора $f(x) = I(g(x) \ge 0.5)$ выписать матрину рассошасования и несевти необходиние метрики какетво. 1 4=1 4-0 Confusion Matrix: 9=1 TP FP

Conf=[3 1]

L1 4] accuracy = $\frac{TP+TN}{TP+TN+FP+FN} = \frac{7}{9}$ erro7 = 1 - aceuraey = 2/9 $FPR = \frac{FP}{FP + TN} = \frac{1}{5}$ TPR = recall = TP = 3 FNR = FN - 1 = 1 FN+TP + 3 = 4PPV = TP = 3 = precision TNR= TN+FP=5 F1 = (1+1). = 3 . 3 . 3 . 3 . 4 . 4 . 4 . 4