Tok 4

I I Jent: My the knowns and unknowns in the polynomia

Wo, Wz, Wz, X (unless provided)

2. Linear or non in W

Linear in w bocare Wa, Wz, Wz involve x

His means linear Regression

Linear or non in X

U outline Algorithm using Least squres

$$X = \begin{bmatrix} 1 & x_1 & x_1^2 \\ 1 & x_2 & x_2^2 \\ 1 & x_3 & x_3^2 \end{bmatrix} Y = \begin{bmatrix} y_1 \\ y_2 \\ y_3 \end{bmatrix} W = \begin{bmatrix} w_0, w_1 w_2 \end{bmatrix}^T$$

$$V = \begin{bmatrix} w_0, w_1 w_2 \end{bmatrix}^T$$

$$V = \begin{bmatrix} w_0, w_1 w_2 \end{bmatrix}^T$$

$$V = \begin{bmatrix} x_1 & x_2 & x_2 & y_3 & y_3 & y_4 & y$$

5 just extend X +0 NXN size
y to N size
w to two spose all w:

Task 5

The projection matrix P=A(ATA) AT: S equal to identity sometimes

1 Example of a design matrix PIT

2. Why usally not for projection?

Because a projection with identity does absolutely hothing

3 prove α condition P=I $\alpha = \begin{bmatrix} 700 \\ 019 \\ 011 \end{bmatrix}$

P = a(ato) | x = I