Multivariake Care: features of our data (K such) samples: each sample consist of (N samples)
a measurement of the k features
target variable that we are trying to
predict mpg ~ displacement of engine, weight of can accelerate $y \simeq m_1 \cdot disp + m_2$ weight + m_3 . accel + b N entries "TIDY DATA CONVENTION" N rows each is a sample Carmodel,

Carmodel 2

Carmodel 2

Carmodel 2

Carmodel N

Carmodel N

$$y_{i} \approx m_{i} x_{i} + m_{i} x_{i} + m_{i} x_{i} + b$$

$$y_{i} \approx x_{i} + m_{i} x_{i} + m_{i} x_{i} + b$$

$$y_{i} \approx x_{i} + m_{i} x_{i} + m_{i} x_{i} + b$$

$$y_{i} \approx x_{i} + m_{i} x_{i} + m_{i} x_{i} + b$$

$$y_{i} \approx x_{i} + m_{i} x_{i} + m_{i} x_{i} + b$$

$$y_{i} \approx x_{i} + m_{i} x_{i} + m_{i$$

Multivariale optimization problem:

Find Mis----, MK+1 sothat

IIY-XMII2 is minimized.