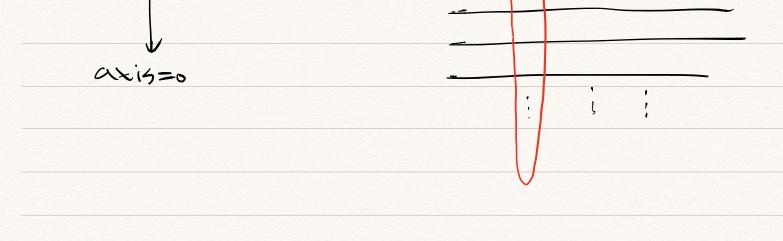
Preprocessing: Data Preparation
Preprocessing: Data Preparation More effectively 1932/14 CDo right thing
efficiency 13/34 14 - Do thing right
D normal to scale the targets to lie between o and I X 日林镇在0911ing.
2) Scale the input data i) treat each data dimension independently
ii) Zero mean — 水东场值 Unit Variance — 海水龙道 Outliers嘉靖
(iii) its Maximum = 1 to dominate Minimum = -1
Normalisation/Standardisation
np. mean() / np. variance()
laxis =0 columns laxis =1 rows
$\gamma = 0$ $\gamma = $



feature selection:

train the classifier with a subset of the inputs by Missing out different features

[Good result

leave it out and try to leave but others.

Simplistic way of testing for correlation between the output

and each of the features

 $\times_1 \times_2 \times_3 \longrightarrow \gamma$

人 ×1 / ×2 / ×3 名 y 元美 ×1 / ×2 /×3 本司美

Imensionality reduce produce lower dimensionsal representations of the data still include the relevant information Linear Regression indicator variable for classes thatite

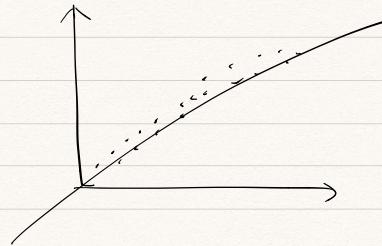
future value 引插值

interpolation its the extrapolation 5/1/16

八个点 个一次为一年起

Least-squares Optimization

$$Error = \frac{N}{2} \left(t_{j} - \frac{M}{2} \beta_{i} X_{ij} \right)^{2}$$



Error =
$$(t - \times \beta)^T (t - \times \beta)$$

trace: 证: 对南线·乐。

1. 定数 玉为完数丰身

7.

(t-XB) (t-XB) O compute the smalless value of means i) differentiate it wit column B ii) set the derivative to 0 $\times (\leftarrow \times \beta) = 0$ $|V\rangle = (X^{T} \cdot X) \cdot X^{T} \cdot t$ Closed form 封油斯式