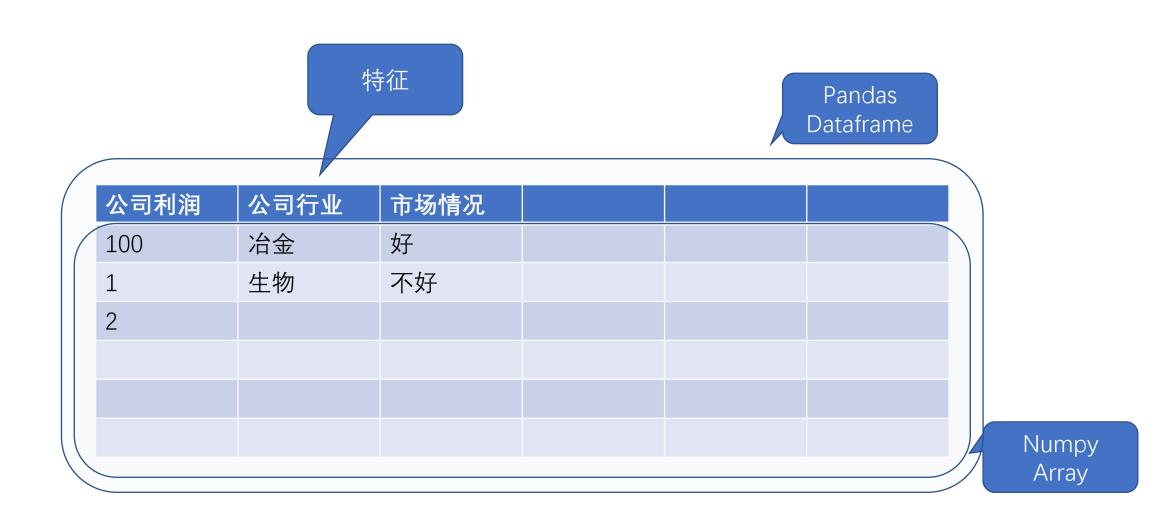
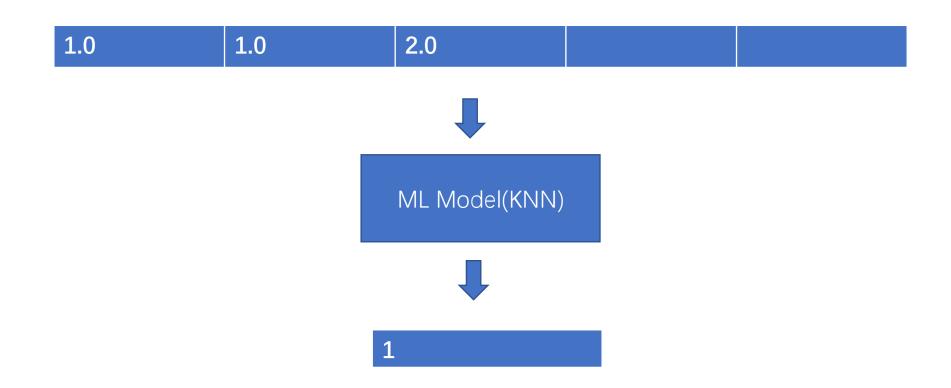
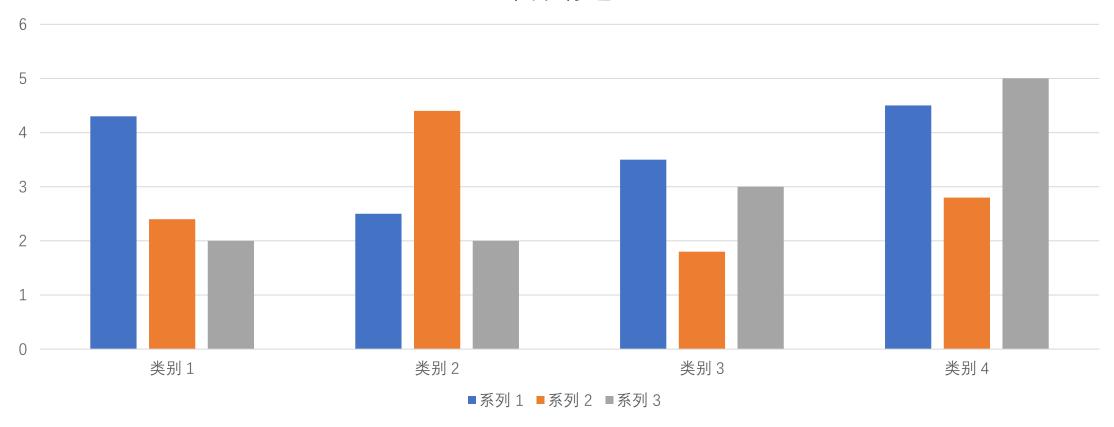
构造更多质量好的特征! --Goal



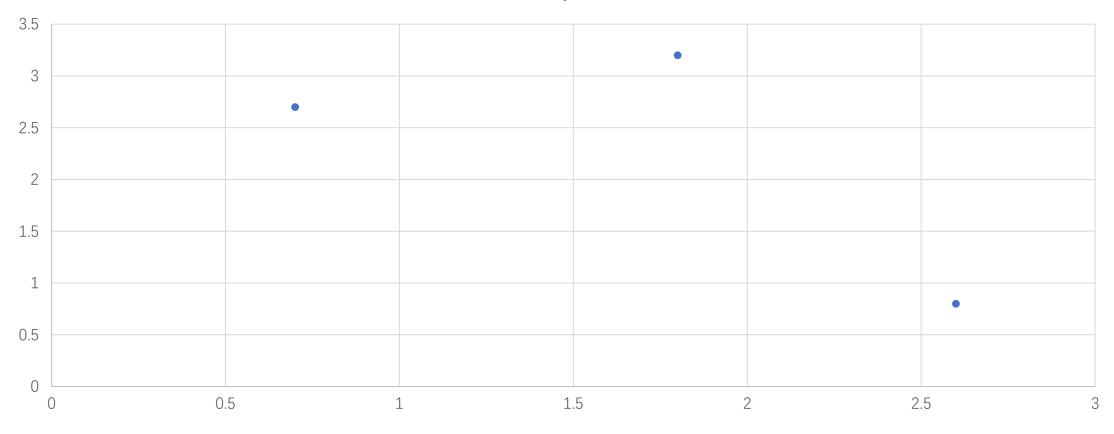
数据向量化-特征工程

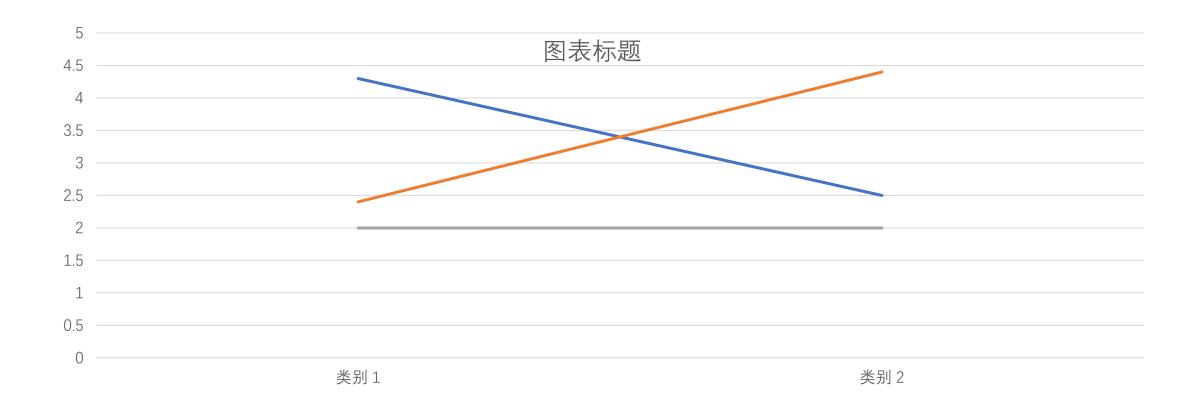


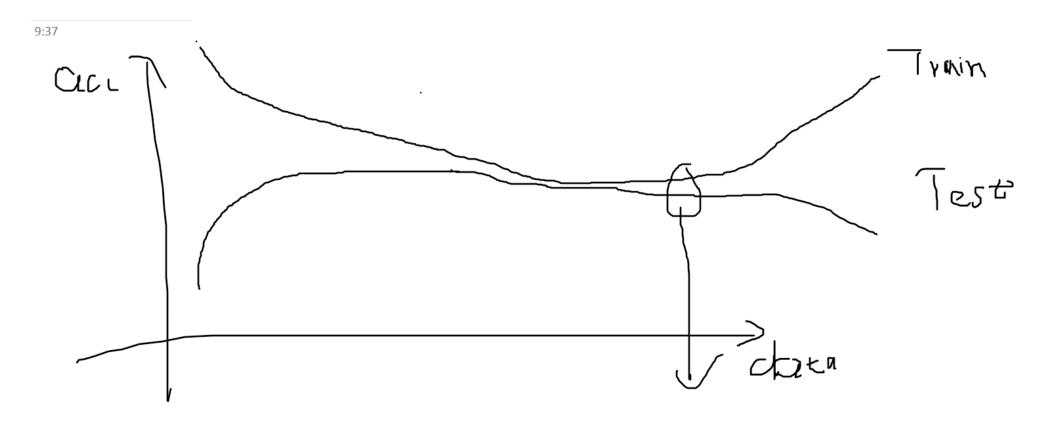
图表标题



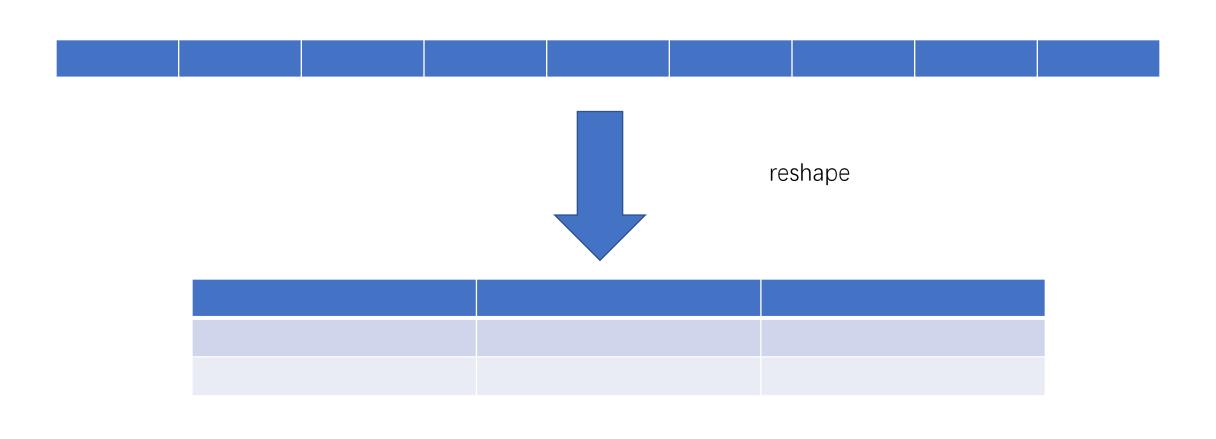


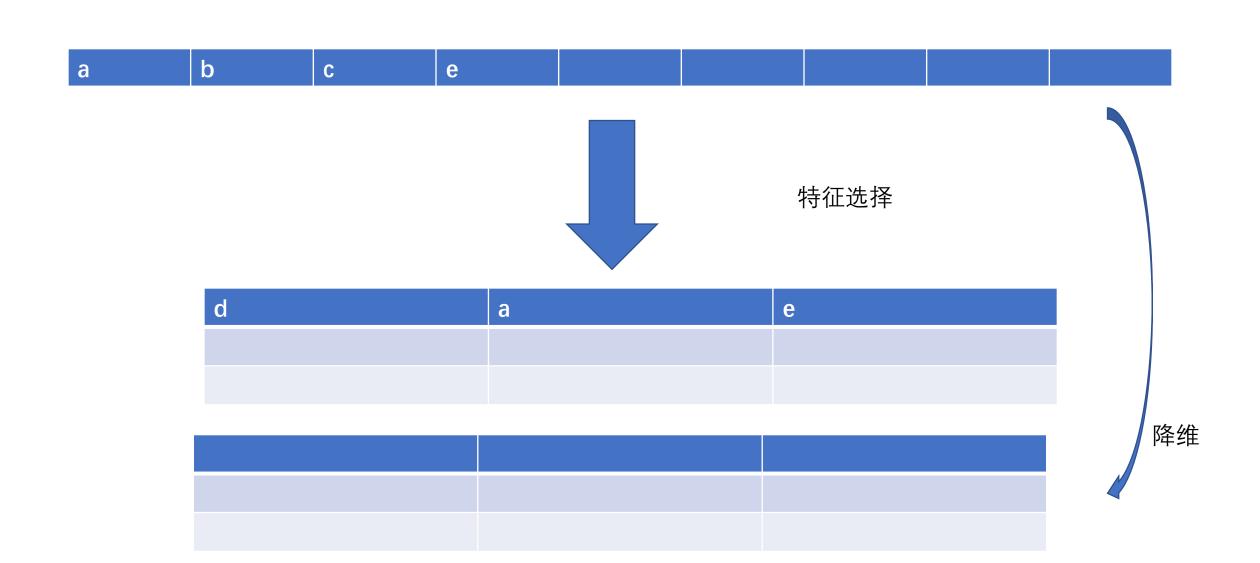






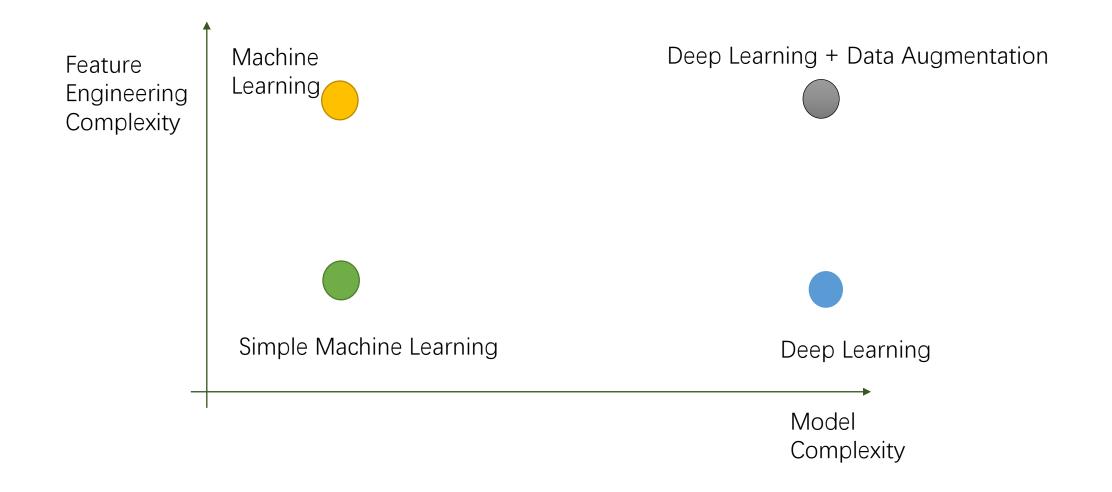
- Vec a + Vec b = Vec c
- For i in range(10):
 - c[i]=a[i] + b[i]
 - ->c = a + b

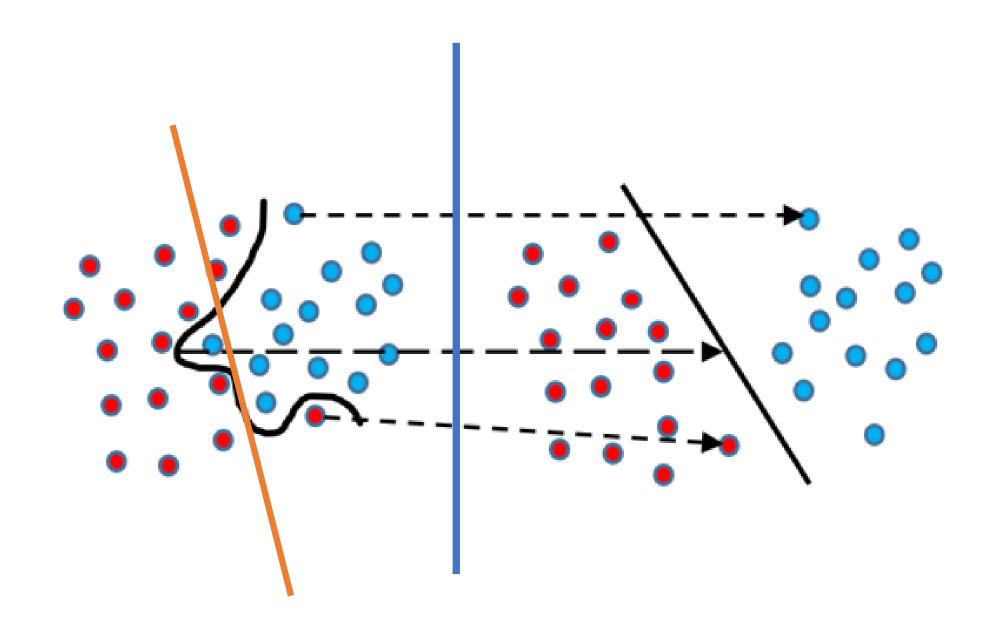




 $\bullet Y = WX + b$

• 模型被保存的文件 = 权重W,b + meta (函数形式)





Data Augmentation





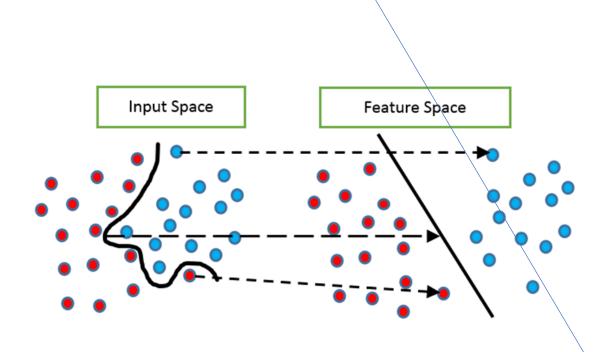


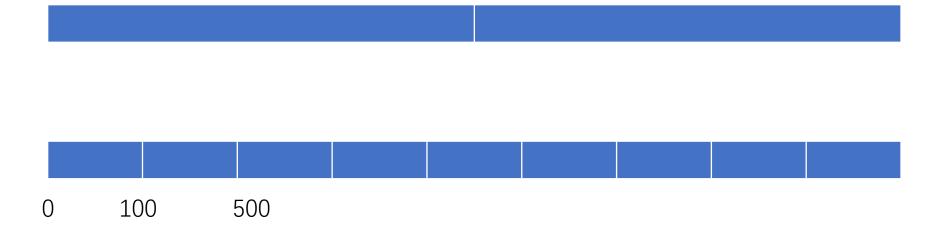


空值处理

- 缺失较多,可以丢弃
- 填充
 - 填充固定数值
 - 离散数值 众数或新数值
 - 连续数值 均值
- ML预测

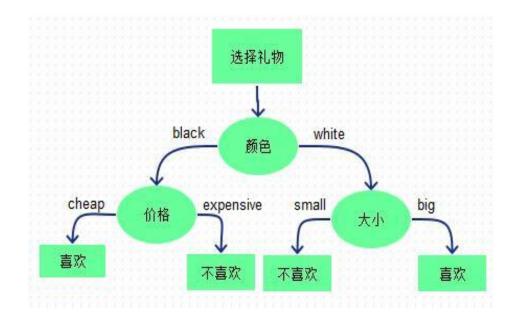
- Label Encoder
 - Company_type: big, middle, small.
 - 0,1,2
- One encoder
 - Company_type -> c_t_a, c_t,_b, c_t_c
 - [1,0,0], [0,1,0], [0,0,1]





Embeded feature selection

- Y = WX + B
 - W反应特征重要性
- Decision tree



AutoML – HPO

