# 2020 Machine Learning

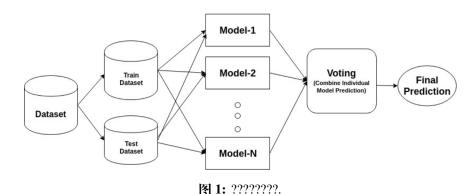
# **Fourth Assignment**

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# 1 ??

# 2 ??????



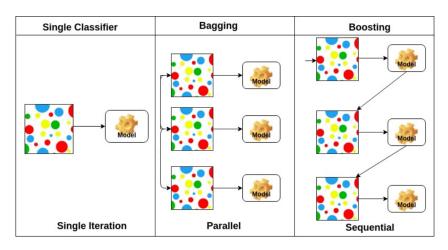
#### 2.1 ???????

????????, ?????????.

# **Bagging??**

# **Boosting??**

# Stacking??



**图 2:** ??Stacking?????.

# 3 ????

- 1. ??????????????????
- 2. ??????, ???????????????????????

# 3.1 AdaBoost??

- 1. Adaboost?????????.
- 2. ?????????????AdaBoost??.

- 5. ???????, ????????????????????????
- 6. ??, ??????????\$??Ť, ??????.

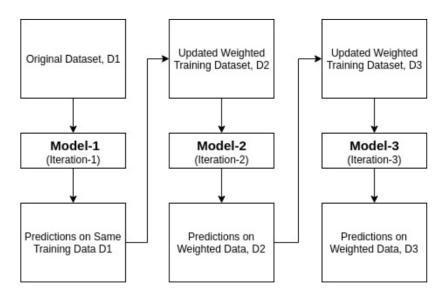


图 3: AdaBoost?????.

### 3.2 ????

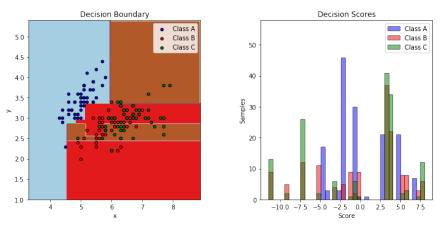


图 4: ??????????????

# 4 ????

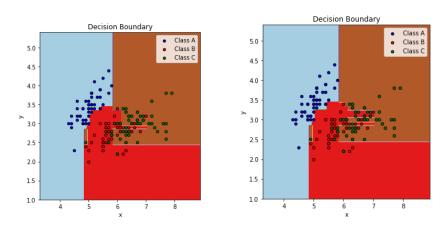
# 4.1 ????

# 4.1.1 ???????

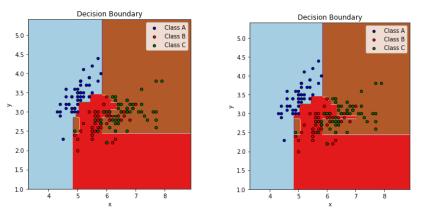


### 4.2 ?????

### 4.2.1 ???????



#### 4.2.2 ????????



### ????????87.6%????94.1%. ?????????????????

