Problem of Decision Tree

Overfitting — Pruning

Random Forest

Job Offer

1. Fixed Pay
2. Variable Pay
3. Stock
4. Bonus
5. Health Insurance
6. WFH
7. Cab
8. Free Food
9. City

10. Timing

Decision Tree

you consult an expert and show all your information on offer details based on that they will suggest

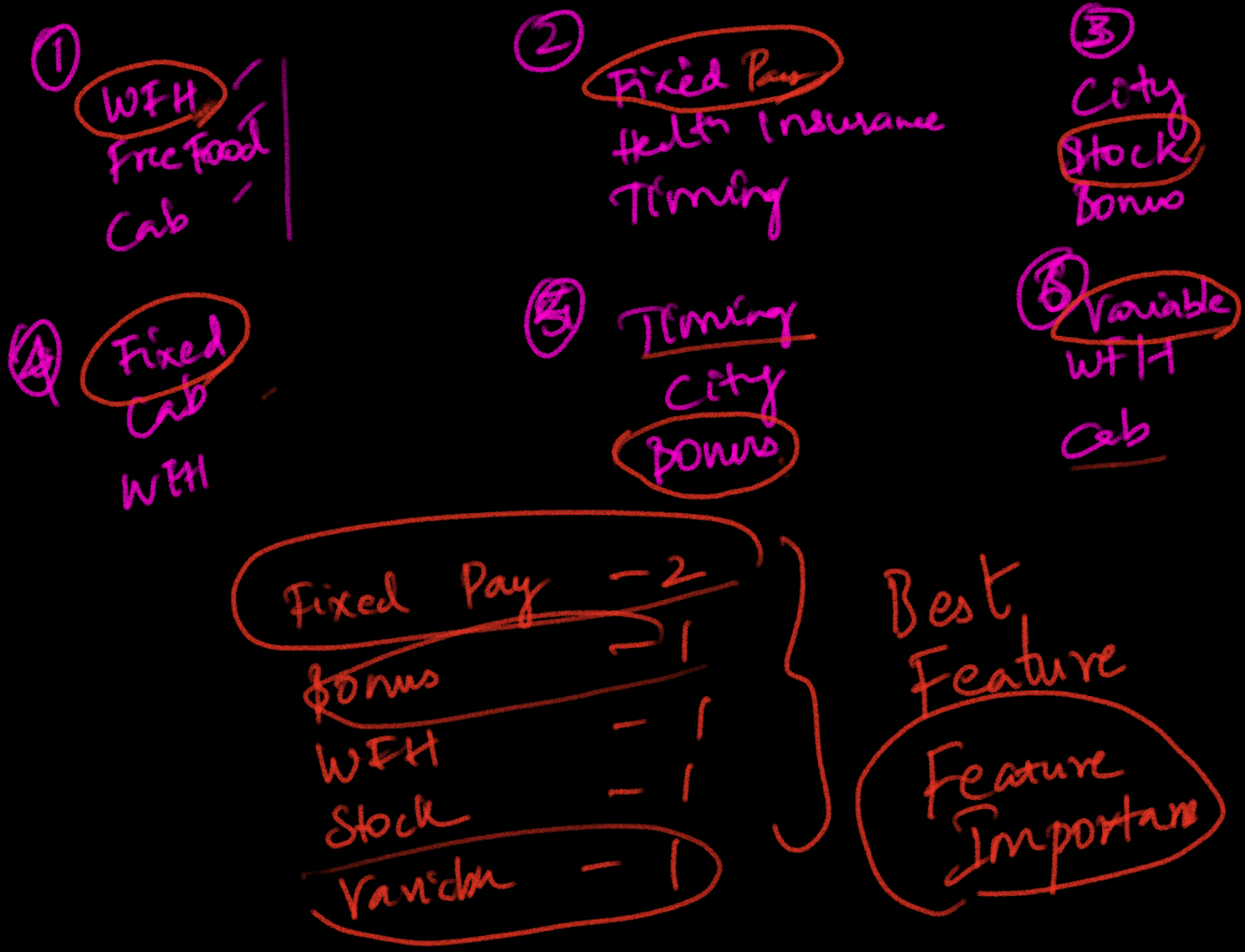
100 People — expert

Randomly show (3) feature → suggestion

70 consider

30 not consider

Consider



Ensemble Model

- Bagging
  - Random Forest
- Boosting

Bagging

Bootstrap Aggregation

Random Features

Random samples

DecisonTree

Result Result Result Result

RandomForest is Handy

Distributed Environment

Hadoop environment

Intuitiv

Random Forest

100 Trees → Forest

Small → Random

Classification - $\sqrt{m}$

Regression - $m/3$

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100 columns

Random 10 cloth

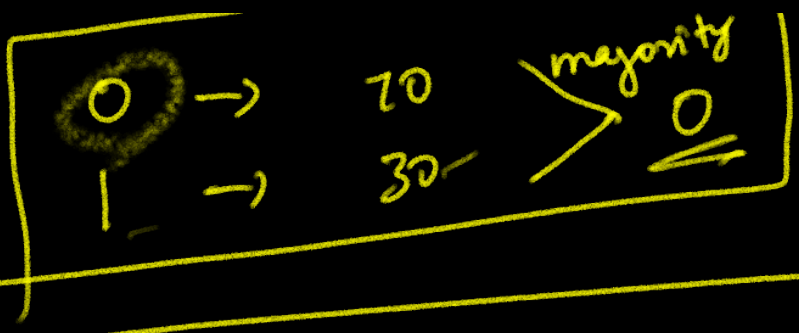
10 cloth

Tree model 1

Tree model 2

Tree model n

0 0 ... 1



Classificati

Random Forest

default → Criticron → root node

Gini index

↳ Less time computati

Both Classification and Regression

↓ Voting majority Class

↓ Mean