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داده‌های بزرگ: فردای بزرگ‌تر
BIG DATA

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TOP PREDICTION ALGORITHMS
TYPE
NAME
DESCRIPTION
ADVANTAGES
DISADVANTAGES
Linear
Linear regression
The "best fit" line through all data points. Predictions are numerical.
Easy to understand -- you clearly see what the biggest drivers of the model are.
X Sometimes too simple to capture complex relationships between variables.
X Tendency for the model to "overfit".
Logistic regression
The adaptation of linear regression to problems of classification (e.g., yes/no questions, groups, etc.)
Also easy to understand.
X Sometimes too simple to capture complex relationships between variables.
X Tendency for the model to "overfit".
Tree-based
Decision tree
A graph that uses a branching method to match all possible outcomes of a decision.
Easy to understand and implement.
X Not often used on its own for prediction because it's also often too simple and not powerful enough for complex data.
Random Forest
Takes the average of many decision trees, each of which is made with a sample of the data. Each tree is weaker than a full decision tree, but by combining them we get better overall performance.
A sort of "wisdom of the crowd". Tends to result in very high quality models. Fast to train.
X Can be slow to output predictions relative to other algorithms.
X Not easy to understand predictions.
Gradient Boosting
Uses even weaker decision trees, that are increasingly focused on "hard" examples.
High-performing.
X A small change in the feature set or training set can create radical changes in the model.
X Not easy to understand predictions.
Neural networks
Neural networks
Mimics the behavior of the brain. Neural networks are interconnected neurons that pass messages to each other. Deep learning uses several layers of neural networks put one after the other.
Can handle extremely complex tasks - no other algorithm comes close in image recognition.
X Very, very slow to train, because they have so many layers. Require a lot of power.
X Almost impossible to understand predictions.
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Robert Half Technology Salary Guide [redacted]

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