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이러한 예측 알고리즘은 다양한 데이터 집합에 대해 학습을 통해 최적의 예측 모델을 생성합니다. 이러한 예측 모델은 다양한 분야에서 활용되며, 특히 마케팅, 금융, 의료, 제조업 등에서 널리 사용됩니다. (1) 이러한 예측 알고리즘의 주요 특징은 다음과 같습니다.

 dataiku 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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