[320] Regression 2

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Pipelines

feature DataFrame

fruit	weight
apple	1
orange	2
apple	3

estimator

simple model

predictions

Pipelines

feature DataFrame

fruit	weight
apple	1
orange	2
apple	3

pipeline applies transformers
in **sequence** before estimation

pipeline
model

transformer

x1	x2
1	1
2	4
3	9

estimator

predictions
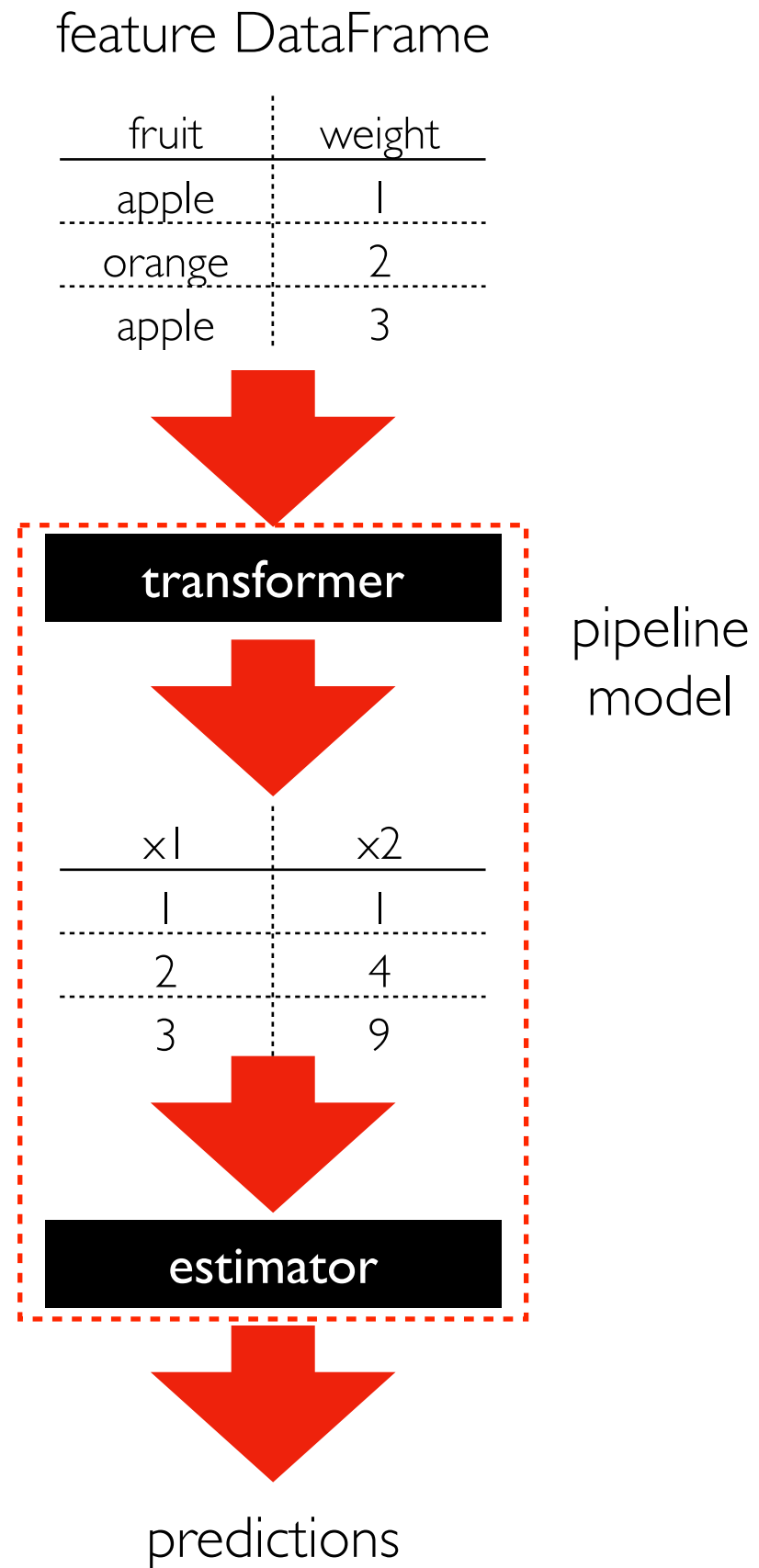
Pipelines

feature DataFrame

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transformer

pipeline
model

x1	x2
1	1
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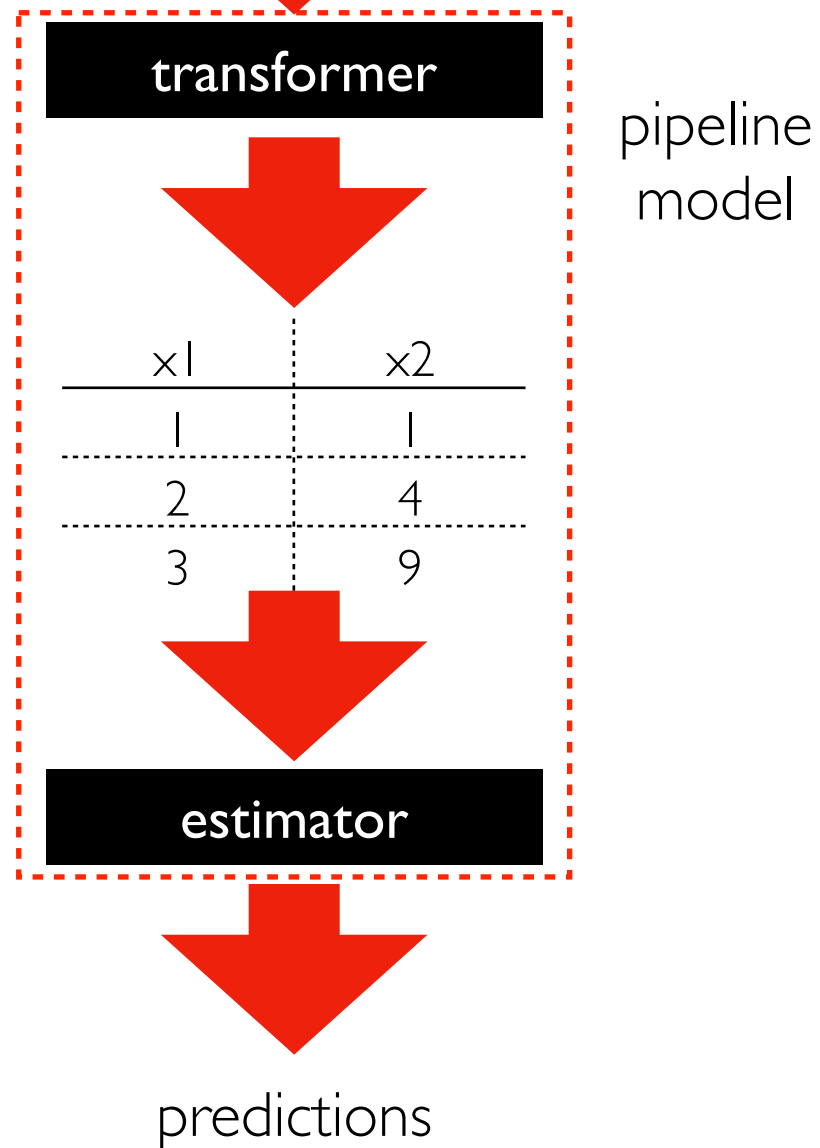**estimator**

transformers:
- PolynomialFeatures
- OneHotEncoder
- StandardScaler
- KMeans
- PCA
- ColumnTransformer

estimators:
- LinearRegression
- LogisticRegression

predictions

ColumnTransformer

feature DataFrame

fruit	weight
apple	1
orange	2
apple	3

ColumnTransformer applies one or more transformers in **parallel** before next step

ColumnTransformer

Transformer 1 **Transformer 2**

x1	x2	x3	x4
1	0	1	1
0	1	2	4
1	0	3	9

estimator

predictions