Models
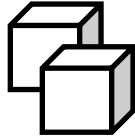
Models
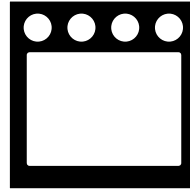
Apple   Sugar   Eggs   Baking Oven   Recipe   Apple Pie

Ingredients + technical equipment
(Requirements)

Models

Label:
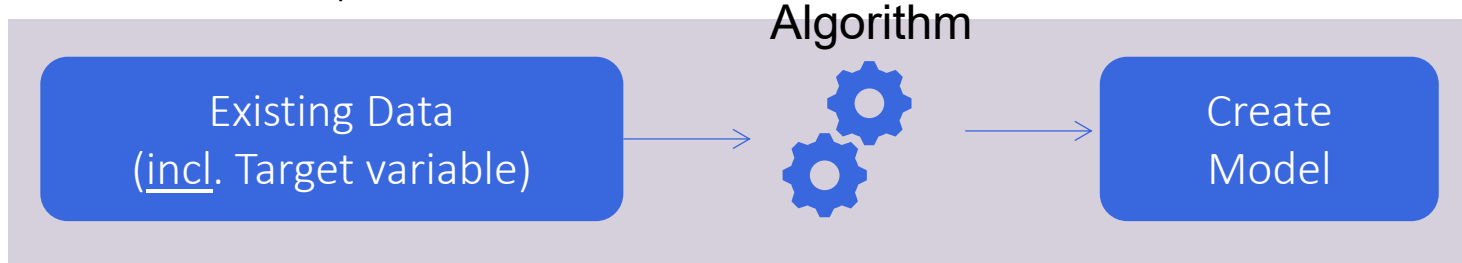„Dog"
„Cat"

Independent Variables
Model
Prediction
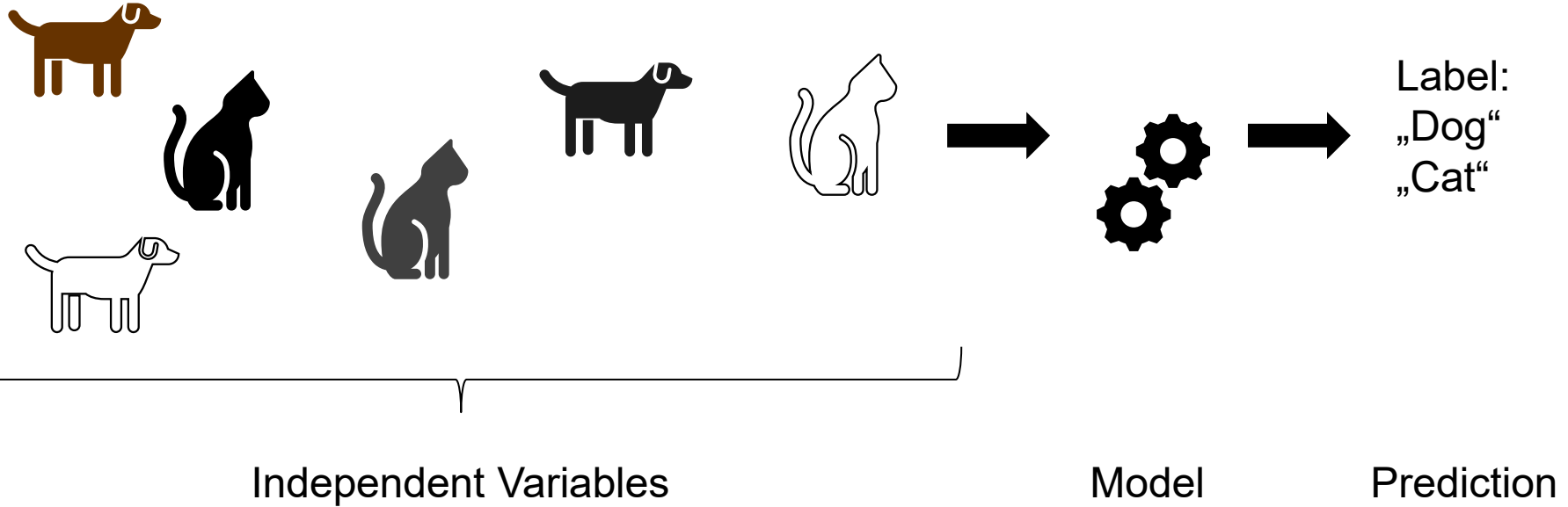
Models

Model Development

Algorithm

Existing Data
(incl. Target variable)

Create
Model

Model Application

New Data
(excl. Target)

Created
Model

Prediction of
target
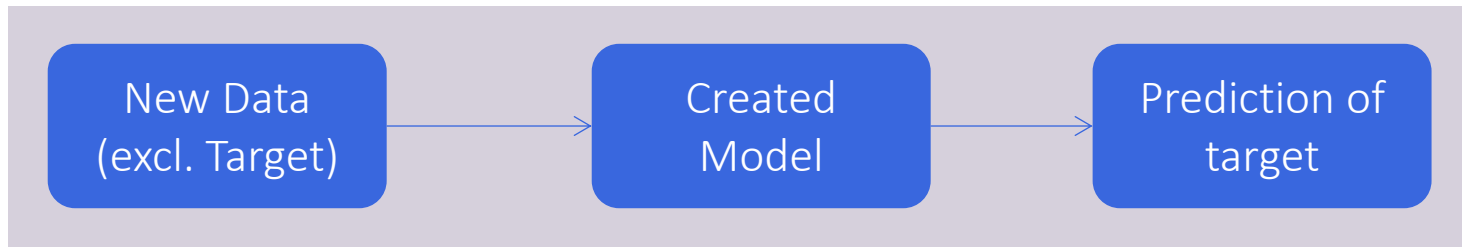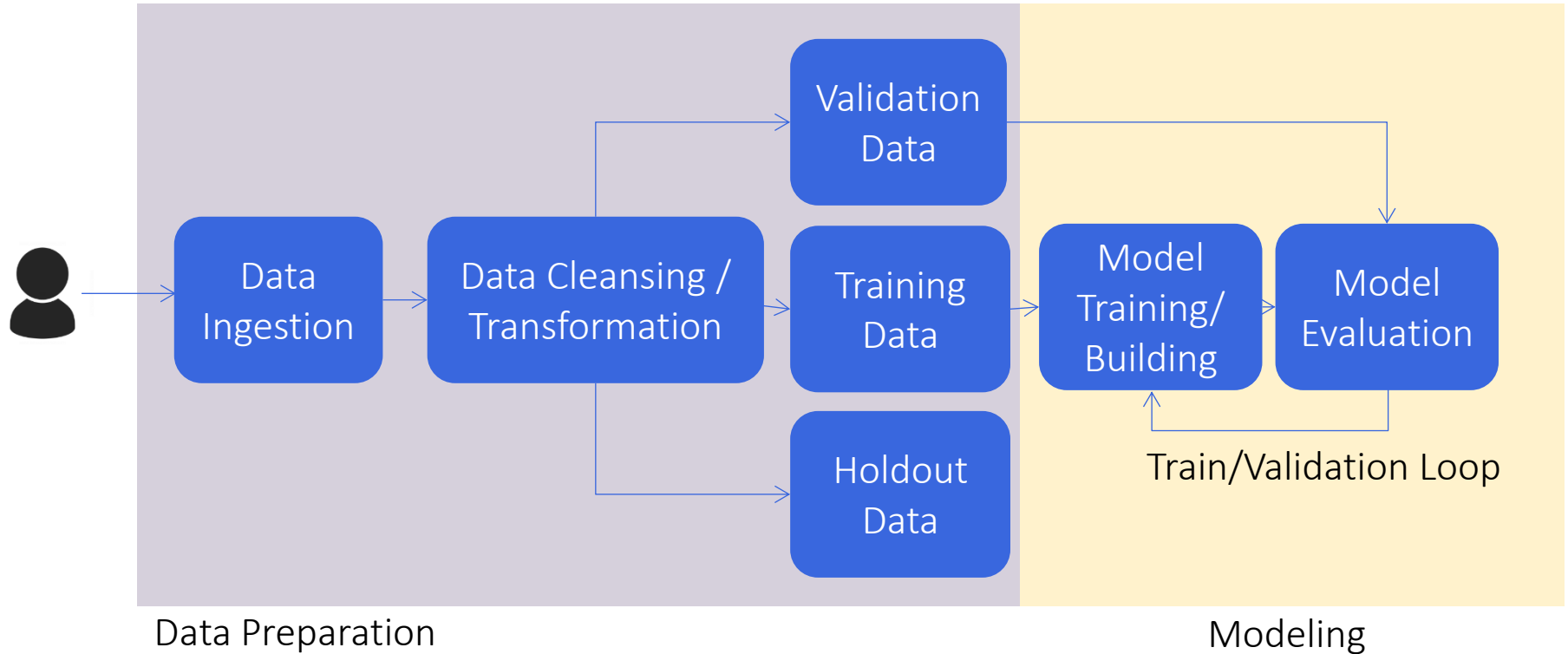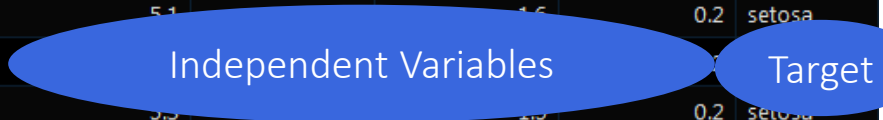
Models

Detailed Model Development

Models

- Task: Target variable (dependent variable) should be predicted.
- Predictors (independent variables) are used to create a model based on an existing relationship between independent and dependent variable.
- Model „learns" relationship
- Learned model can then be applied to new data.

	X1	X2	X3	X4	Y
	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
	4.8	3.0	1.4	0.3	setosa
	5.1		1.6	0.2	setosa
				0.2	setosa
	5.0	3.3	1.4	0.2	setosa
	7.0	3.2	4.7	1.4	versicolor
	6.4	3.2	4.5	1.5	versicolor
	6.9	3.1	4.9	1.5	versicolor
	5.5	2.3	4.0	1.3	versicolor
	6.5	2.8	4.6	1.5	versicolor
	5.7	2.8	4.5	1.3	versicolor
	6.3	3.3	4.7	1.6	versicolor
	4.9	2.4	3.3	1.0	versicolor
	6.6	2.9	4.6	1.3	versicolor

Independent Variables

Target