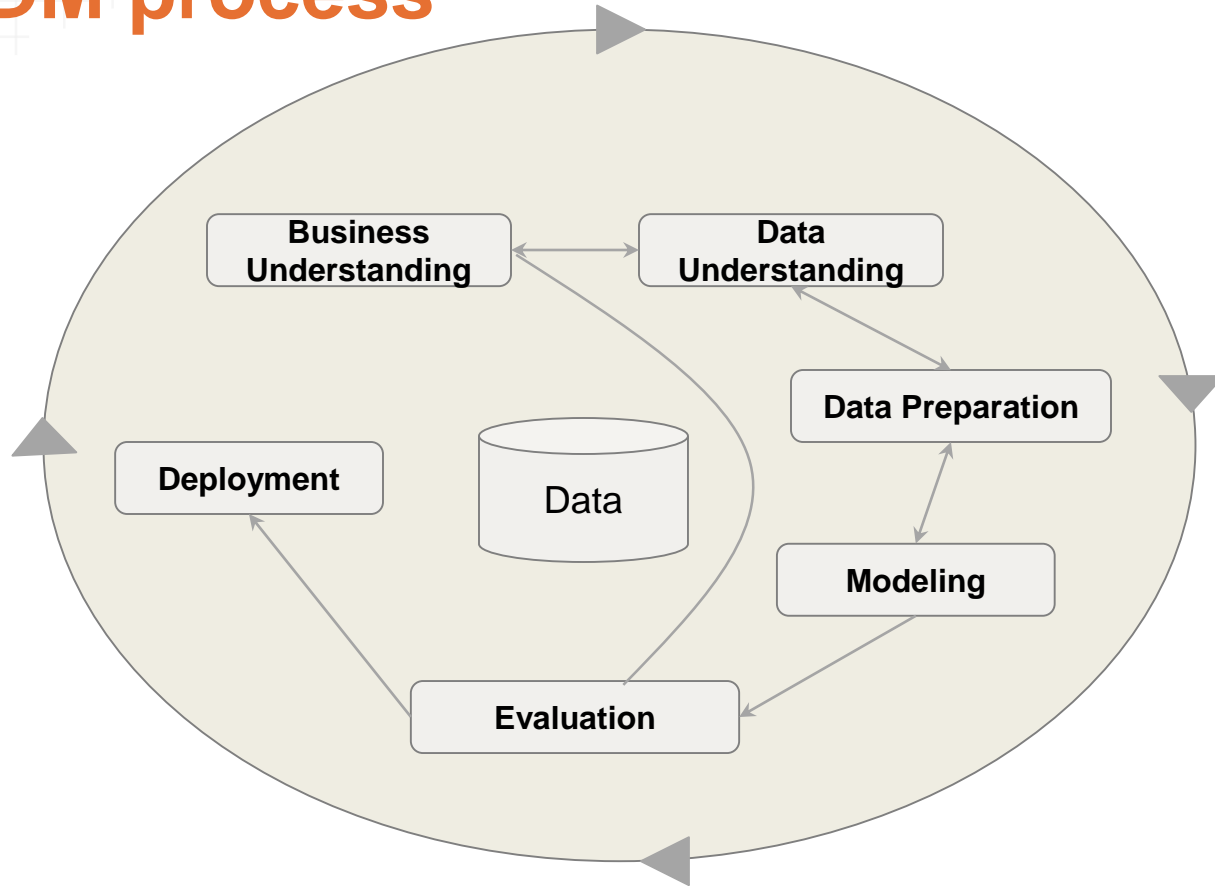


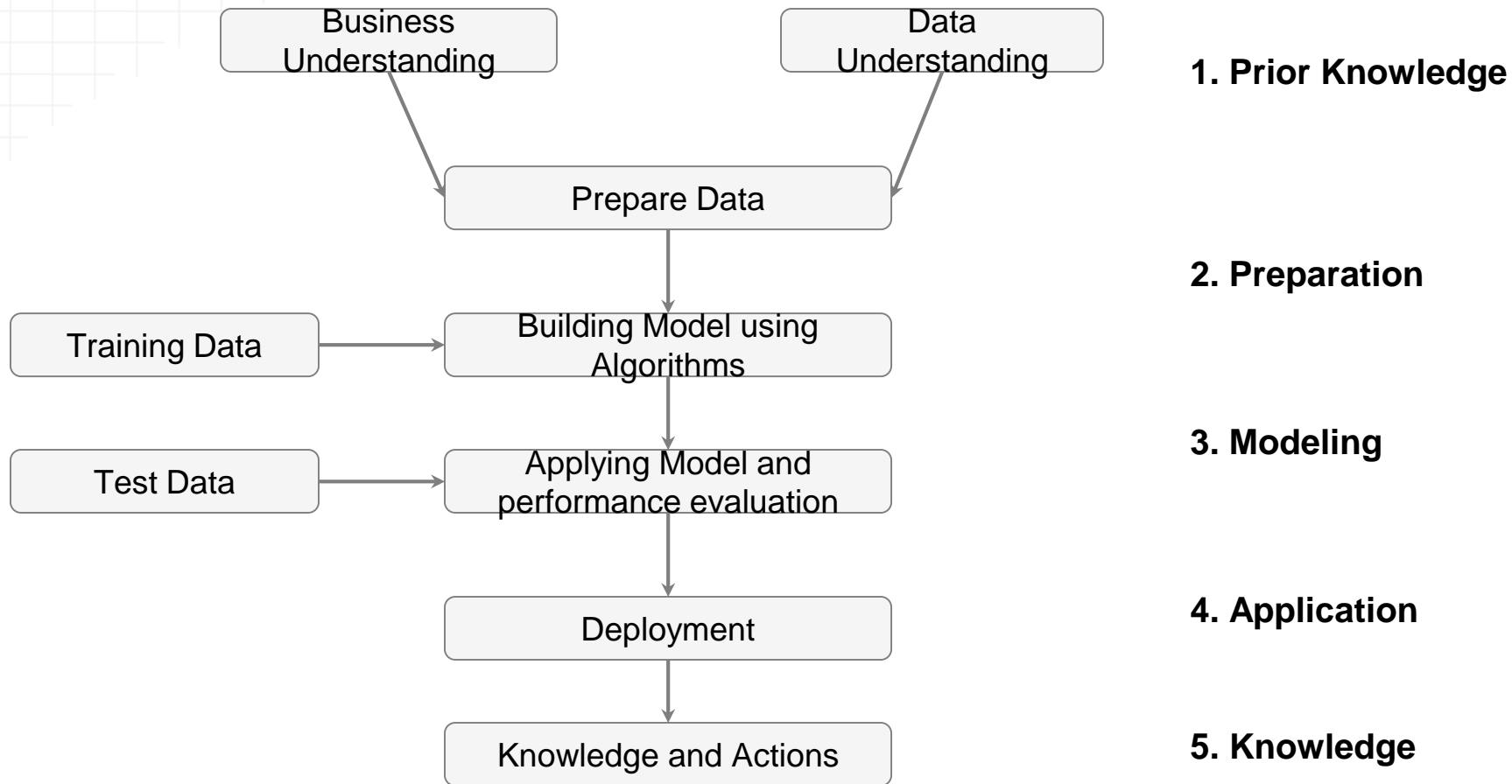
The background features a complex, abstract design. It consists of a grid of faint, light gray numbers (0-9) scattered across the space. Overlaid on this grid are numerous thin, dark gray lines that curve and swirl, creating a sense of motion and depth. The overall aesthetic is technical and data-oriented.

2. Data Mining Process

CRISP DM process



Process



1. Prior Knowledge

Gaining information on:

- Objective of the problem
- Subject area of the problem
- Data

Borrower ID	Credit Score	Interest Rate
01	500	7.31%
02	600	6.70%
03	700	5.95%
04	700	6.40%
05	800	5.40%
06	800	5.70%
07	750	5.90%
08	550	7.00%
09	650	6.50%
10	825	5.70%

2. Data Preparation

Data Exploration

Data quality

Handling missing values

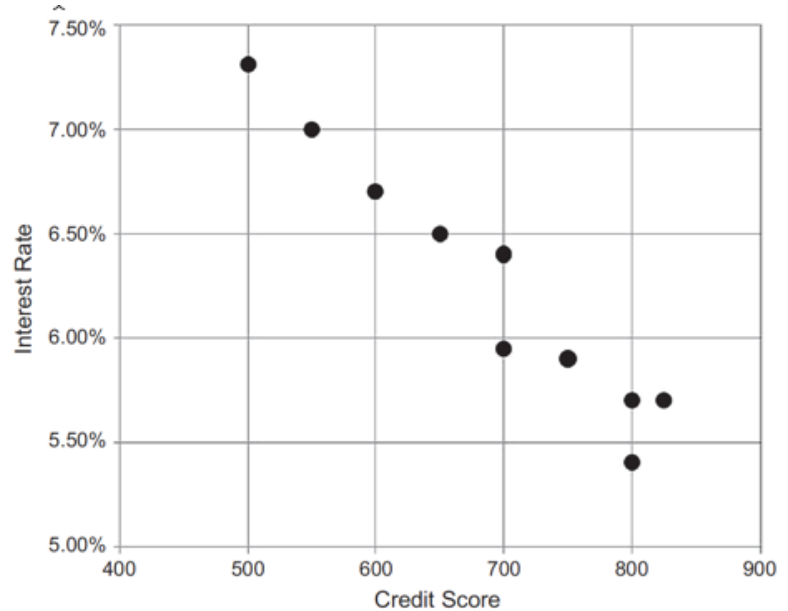
Data type conversion

Transformation

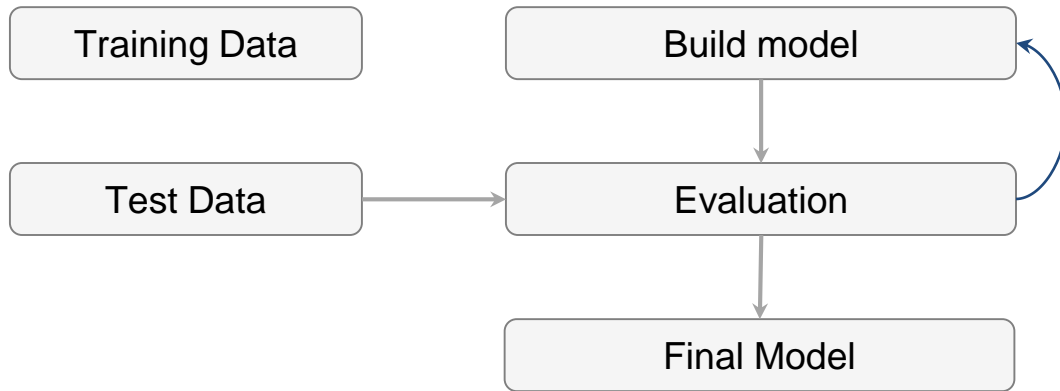
Outliers

Feature selection

Sampling



3. Modeling



3. Modeling

Splitting training and test data sets

Table 2.3 Training Data Set

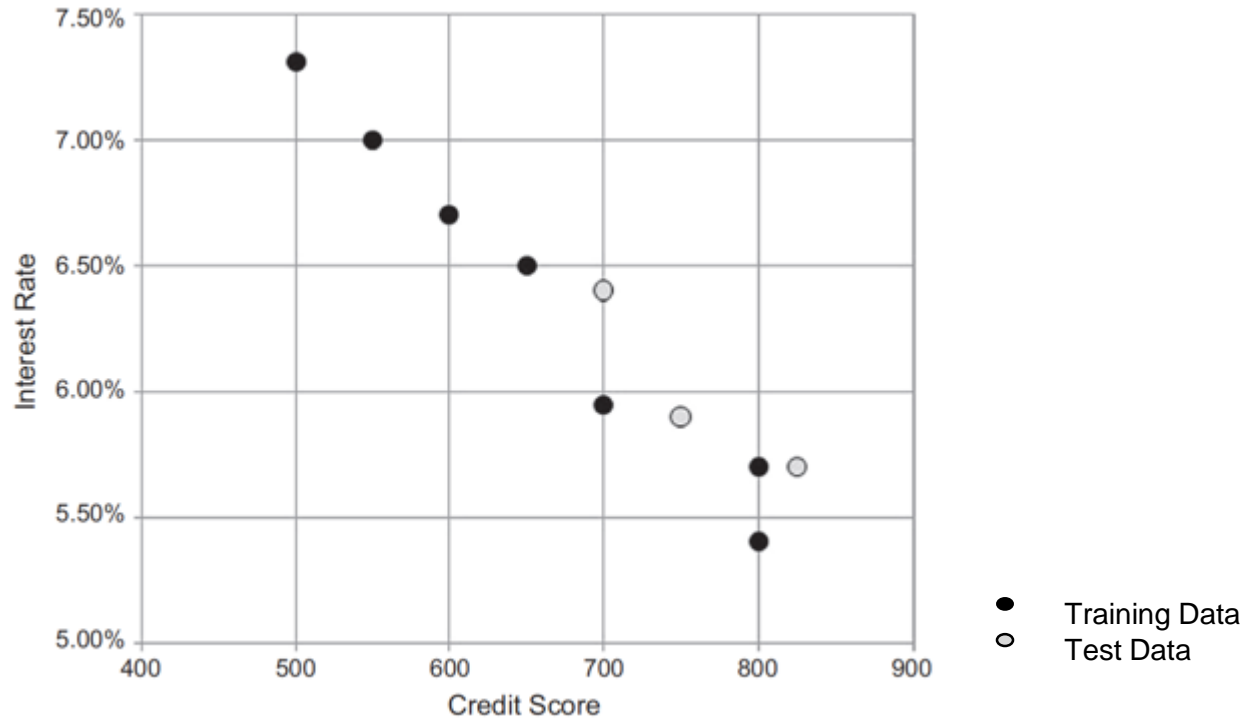
Borrower	Credit Score (X)	Interest Rate (Y)
01	500	7.31%
02	600	6.70%
03	700	5.95%
05	800	5.40%
06	800	5.70%
08	550	7.00%
09	650	6.50%

Table 2.4 Test Data Set

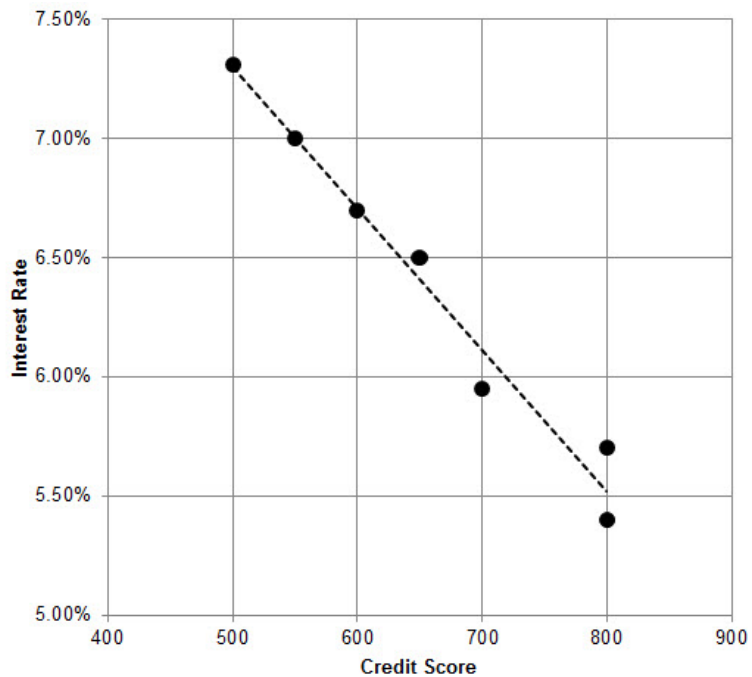
Borrower	Credit Score (X)	Interest Rate (Y)
04	700	6.40%
07	750	5.90%
10	825	5.70%

3. Modeling

Splitting training and test data sets



3. Modeling



$$y = 0.1 + \frac{6}{100,000}x$$

3. Modeling

Evaluation of test dataset

Borrower	Credit Score (X)	Interest Rate (Y)	Model Predicted (Y)	Model Error
04	700	6.40%	6.11%	-0.29%
07	750	5.90%	5.81%	-0.09%
10	825	5.70%	5.37%	-0.33%

3. Application

Product readiness

Technical integration

Model response time

Remodeling

Assimilation

5. Knowledge

Posterior knowledge