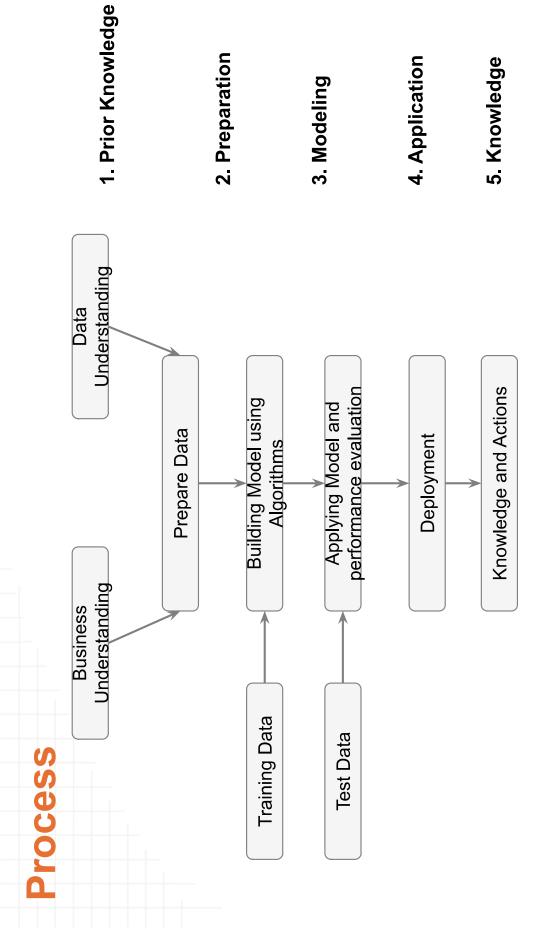


Data Understanding Data Understanding CRISP DM process Business **Deployment**

Data Preparation

Modeling

Evaluation



1. Prior Knowledge

Gaining information on:

- Objective of the problem Subject area of the problem Data

Table 2.1 Data Set		i i
Borrower ID	Credit Score	Interest Rate
10	900	7.31%
02	009	6.70%
03	700	5.95%
04	700	6.40%
05	800	5.40%
90	800	5.70%
20	750	5.90%
80	550	7.00%
60	650	6.50%
10	825	5.70%

2. Data Preparation

Data Exploration Data quality

Handling missing values

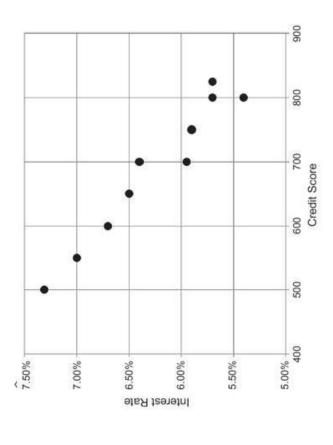
Data type conversion

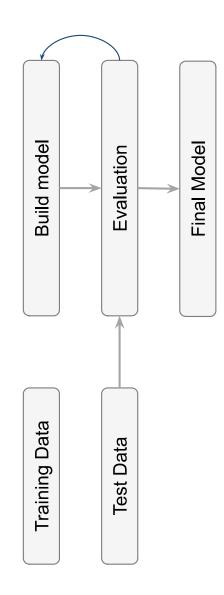
Transformation

Outliers

Feature selection

Sampling





3. Modeling

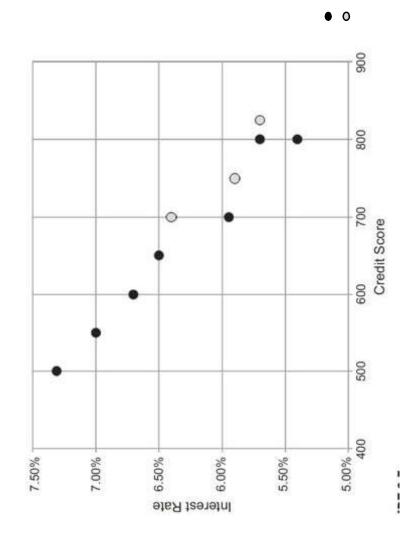
Spliting training and test data sets

Table 2.3 Training Data Set	Set	
Borrower	Credit Score (X)	Interest Rate (Y)
10	200	7.31%
02	009	6.70%
03	200	5.95%
90	800	5.40%
90	800	5.70%
80	550	2,00%
60	650	6.50%

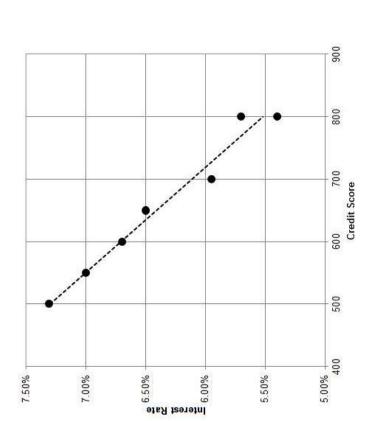
Table 2.4 Test Data Set			
Borrower	Credit Score (X)	Interest Rate (Y)	
04	700	6.40%	
20	750	5.90%	
10	825	9.70%	

3. Modeling

Spliting training and test data sets



Training Data Test Data



3. Modeling

Evaluation of test dataset

lable 2.5 Evaluation of lest Data Set		1:		
Borrower	Credit Score (X)	Interest Rate (Y)	Model Predicted (Y)	Model Error
04	700	6,40%	6.11%	-0.29%
20	750	5.90%	5.81%	-0.09%
10	825	2.70%	5.37%	-0.33%

3. Application

Product readiness
Technical integration
Model response time
Remodeling
Assimilation