Predicting firms bankruptcy from financial indicators

This dataset contains 64 financial indicators of over 10000 companies.  
Column 'class' is, instead, binary and indicates whether the company went bankrupt within a certain period after the indicators were collected.  
  
You are expected to:

* Perform data exploration, cleaning, imputation.
* Use data visualisation techniques to explore the data set.
* Come up with (binary) classification models to predict whether a company will be bankrupt.
* Perform model selection among these models, with a rigorous methodology.
* Report you results clearly and concisely.

Features:

X1 net profit / total assets  
X2 total liabilities / total assets  
X3 working capital / total assets  
X4 current assets / short-term liabilities  
X5 [(cash + short-term securities + receivables - short-term liabilities) / (operating expenses - depreciation)] \* 365  
X6 retained earnings / total assets  
X7 EBIT / total assets  
X8 book value of equity / total liabilities  
X9 sales / total assets  
X10 equity / total assets  
X11 (gross profit + extraordinary items + financial expenses) / total assets  
X12 gross profit / short-term liabilities  
X13 (gross profit + depreciation) / sales  
X14 (gross profit + interest) / total assets  
X15 (total liabilities \* 365) / (gross profit + depreciation)  
X16 (gross profit + depreciation) / total liabilities  
X17 total assets / total liabilities  
X18 gross profit / total assets  
X19 gross profit / sales  
X20 (inventory \* 365) / sales  
X21 sales (n) / sales (n-1)  
X22 profit on operating activities / total assets  
X23 net profit / sales  
X24 gross profit (in 3 years) / total assets  
X25 (equity - share capital) / total assets  
X26 (net profit + depreciation) / total liabilities  
X27 profit on operating activities / financial expenses  
X28 working capital / fixed assets  
X29 logarithm of total assets  
X30 (total liabilities - cash) / sales  
X31 (gross profit + interest) / sales  
X32 (current liabilities \* 365) / cost of products sold  
X33 operating expenses / short-term liabilities  
X34 operating expenses / total liabilities  
X35 profit on sales / total assets  
X36 total sales / total assets  
X37 (current assets - inventories) / long-term liabilities  
X38 constant capital / total assets  
X39 profit on sales / sales  
X40 (current assets - inventory - receivables) / short-term liabilities  
X41 total liabilities / ((profit on operating activities + depreciation) \* (12/365))  
X42 profit on operating activities / sales  
X43 rotation receivables + inventory turnover in days  
X44 (receivables \* 365) / sales  
X45 net profit / inventory  
X46 (current assets - inventory) / short-term liabilities  
X47 (inventory \* 365) / cost of products sold  
X48 EBITDA (profit on operating activities - depreciation) / total assets  
X49 EBITDA (profit on operating activities - depreciation) / sales  
X50 current assets / total liabilities  
X51 short-term liabilities / total assets  
X52 (short-term liabilities \* 365) / cost of products sold)  
X53 equity / fixed assets  
X54 constant capital / fixed assets  
X55 working capital  
X56 (sales - cost of products sold) / sales  
X57 (current assets - inventory - short-term liabilities) / (sales - gross profit - depreciation)  
X58 total costs /total sales  
X59 long-term liabilities / equity  
X60 sales / inventory  
X61 sales / receivables  
X62 (short-term liabilities \*365) / sales  
X63 sales / short-term liabilities  
X64 sales / fixed assets