## **Credit Scoring - business process automation**

## **Example exam questions**

- 1. What is Gini?
- 2. What is WoE?
- 3. What is ROC?
- 4. What is CAP?
- 5. What is the idea and purpose of methods of calibrations?
- 6. How is the process of variable preselection?
- 7. What are the stability statistics of variables?
- 8. What are the statistics of prediction of a variable?
- 9. What methods do we have for assessing models?
- 10. How do we create segments / categories of continuous variables? (Categorization of a continuous variable, binning)
- 11. How do we create random samples (training, validation) for modeling?
- 12. What criteria identify a good model?
- 13. What is a bad rate?
- 14. What is risk?
- 15. What is KL?
- 16. What is IV?
- 17. What is logit?
- 18. What is model monitoring?
- 19. What is Reject Inference?
- 20. List the steps of model building for an acceptance process that includes Reject Inference.
- 21. How is the default event defined?
- 22. What is the decision engine/scoring engine/decision system?
- 23. What is ABT?
- 24. List examples of ABT variables.
- 25. What does it mean that you must not build the model on data taken from a future, how do we define a future?
- 26. What is collinearity and how is it measured?
- 27. Give examples of ABT variables that can have a Gini predictive power of about 90%?
- 28. Can the model have a Gini value of 90%?
- 29. Why are variable corrections have to be made in the final model for stability reasons?
- 30. What is stability in modeling, why is it important?
- 31. Why is the report of Gini's evolution over time being created?
- 32. Why do we create variable reports, what components of the report are important?
- 33. What is variable clustering? What does it give?
- 34. What are the stepwise methods for selecting variables?
- 35. What is the Score method for selecting variables in logistic regression?
- 36. What procedure do we calculate collinearity measures?
- 37. What procedure counts KS statistics?

- 38. What procedure calculates Gini statistics?
- 39. How do we calculate partial scores?
- 40. Which variable in the scorecard is the most important?
- 41. What benchmarks do we use for variable preselection?
- 42. What benchmarks do we use to assess models?
- 43. What conditions should be met by good categorization of a continuous variable, segmentation/binning?
- 44. How do we calculate the profitability of the credit acceptance process?
- 45. What is the profit curve?
- 46. How do we determine the cut-off for the model?
- 47. What is the expected loss and how is it determined?
- 48. What is PD and how is it determined?
- 49. How can be estimated the risk, PD for rejected applications?
- 50. How does the predictive power of the model affect the profit of the credit acceptance process?
- 51. How do we create segments / groups for a qualitative variable, binning?
- 52. What are the Entropy and Gini Index statistics for?
- 53. Why do we use two sets, training and validation?
- 54. Why do we define the indeterminate status in the default definition?
- 55. What is the difference between acceptance/application and behavioral modeling?
- 56. What is the difference between the definition of default in acceptance/application and behavioral usage?
- 57. To what group does he assign the scoring code if it is a value not provided for in inequalities of all groups, otherwise what is the default value of partial score?
- 58. What pros and cons do we have from using more models on segments instead of one big common model?
- 59. Why are variable interactions sometimes created in the model?
- 60. What is the difference between the interaction of variables used in the model with the same variables used separately?
- 61. What is variable interaction?
- 62. How to choose the observation period in the definition of default event, should it be long or short?
- 63. Can the power of the model as determined by Gini statistics change significantly after implementation?
- 64. Please provide an example of an acceptance strategy, some rule that does not have to be associated with scoring models?
- 65. What is the business model for cheap acquisition expensive cross selling?
- 66. Why should you use response models in acceptance strategies?
- 67. Response definition of event.
- 68. What is response rate?
- 69. Please provide a simple example of the CLTV model for the business model: cheap installment loan and expensive cash loan?
- 70. What is CLTV?
- 71. Please provide an example of segmentation of the acceptance/application portfolio (loan applications) which has business sense.
- 72. What is the difference between application and behavioral variables?

- 73. Please provide typical Gini values for acceptance/application and behavioral models
- 74. Please provide typical values of the Gini, KS, IV statistics for variables.
- 75. What does the change of the sign in estimated beta by the WoE approach in logistic regression?
- 76. What is the difference between Dummy and WoE approaches in scorecard building?
- 77. What function is used for calibration from score into modeled probability of event?
- 78. What are Gains and Lift statistics?
- 79. What are the statistics of Gini, Gains, Lift? When do we use them? Does model that have a large Gini value also have a high value of Lift or Gains?
- 80. What shape of CAP or ROC is more desirable for models used for acceptance / rejecting applications? Do we focus on a part of the curve or all parts are important?
- 81. What is Shapley method? What reports can we do?
- 82. Please present pros and cons of usage of risk scorecard models contra AI models in credit risk acceptance process.