Assignment 5

The due date for submitting this assignment has passed. Due on 2018-02-28, 23:59 IST.

Submitted assignment

1) For a record i, prediction error can be calculated as-
   - (a) predicted value - actual value
   - (b) actual value - predicted value
   - (c) actual value + predicted value
   - (d) none of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
(b) actual value - predicted value

2) Which of the following is a way of measuring predictive accuracy?
   - (a) MAD
   - (b) RMSE
   - (c) MAPE
   - (d) All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d) All of the above

3) Which of the following is not an assumption for regression models?
   - (a) Noise follows a normal distribution
   - (b) Observations are independent
   - (c) Linear relationship holds true
   - (d) Heteroscedasticity

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d) Heteroscedasticity

4) In statistical analysis, sample size is considered large if-
   - (a) n > or = 30
   - (b) n < or = 30
   - (c) n > or = 50
   - (d) n < or = 50

Score: 0
No, the answer is incorrect.
Score: 0
Accepted Answers:
(a) n > or = 30

5) Which of the following is not true of numerical predictive measure of accuracy?
   (a) It is used to compare candidate models
   (b) Assess the degree of prediction accuracy
   (c) Not influenced by outliers
   (d) None of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
(c) Not influenced by outliers

6) Outlier influence in predictive accuracy can be measured through-
   (a) By comparing median based measures
   (b) By comparing mean based measures
   (c) Boxplot
   (d) All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d) All of the above

7) Which of the following is a graphical way to assess predictive performance?
   (a) Pie Chart
   (b) Boxplot
   (c) Histogram
   (d) Lift curve

No, the answer is incorrect.
Score: 0
Accepted Answers:
(d) Lift curve

8) A regression model in which more than one independent variable is used to predict the dependent variable is called:
   (a) simple linear regression model
   (b) multiple regression model
   (c) an independent model
   (d) none of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
(b) multiple regression model

9) The multiple coefficient of determination computed by-
   (a) dividing SSR by SST
   (b) dividing SST by SSR
   (c) dividing SST by SSE
   (d) none of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
(a) dividing SSR by SST
For a multiple regression model, $\text{SST} = 200$ and $\text{SSE} = 50$. The multiple coefficient of determination is:

- (a) 0.25
- (b) 4
- (c) 0.75
- (d) 0.50

No, the answer is incorrect.
Score: 0
Accepted Answers:
(c) 0.75