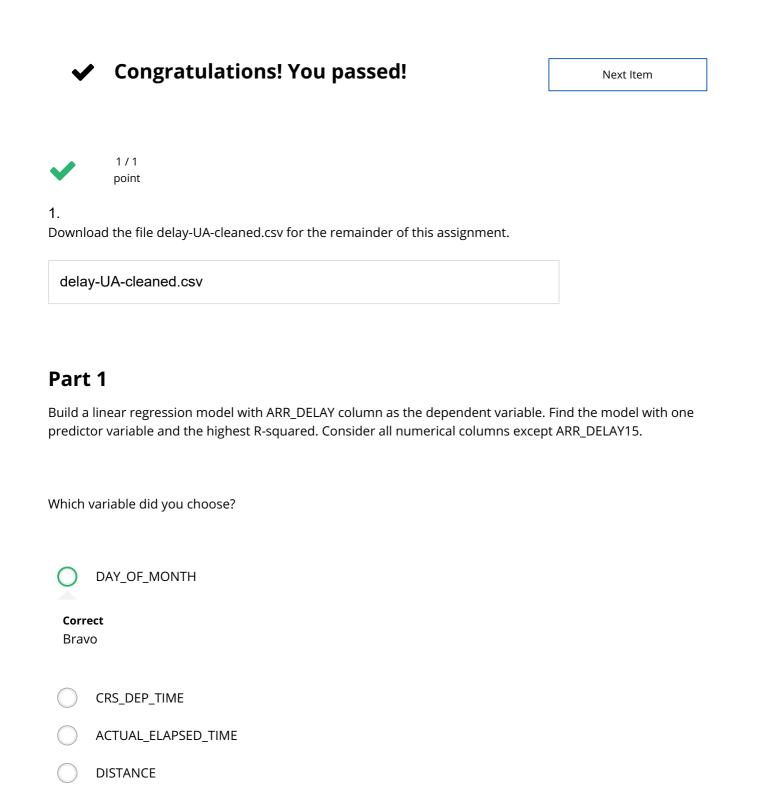
Final Course Assignment Quiz

Practice Quiz, 20 questions





1/1 point

2.

What is the estimated intercept coefficient of the model?



-4.5333

Final Course Assignment Quiz

actice Quiz, 20 questions Correct Bravo!	
	2.4321
	9.3847
~	1 / 1 point
3. What is	s the estimated slope coefficient of the model ?
	7.9118
	8.7911
	3.1879
0	1.1879
Corr o Brav	
~	1 / 1 point
	ler a data transformation of the predictor variable you chose before. Which of the following transformation he highest R-squared value?
	No transformation
	Square
0	Square root
Corr e Brav	

Log

Final Course Assignment Quiz

Practice Quiz, 20 questions point

5.

Build a linear regression model with ARR_DELAY column as the dependent variable and all other variables except ARR_DEL15 as explanatory variables. Note that you need to transform the categorical variables ORIGIN and DEST before building the model. You also should not include all dummy variables you created. Exclude the dummy variables ORIGIN SFO and DEST SFO in your analysis.

variables ORIGIN_SFO and DEST_SFO in your analysis.		
What is the coefficient of DISTANCE?		
0.03899		
0.04899		
0.05899		
Correct Bravo!		
0.06899		
1/1 point 6.		
What is the the adjusted r-squared for the models you built in the previous question?		
0.1257		
Correct Bravo!		
0.2570		
0.5701		
0.7012		

/

1/1 point

7.	
Split the dataset into training and validation sets using a 60:40 split. Set the Final Gourse (Assistantial Day of the control	e random seed for partition to 12345. www.many.observations are in the training
Practice Quiz, 20 questions	

2340

1560

Correct

Refer to the following video for a refresher: Week 2, video 7.

3900

4800



1/1 point

8.

Again, Build a linear regression model with ARR_DELAY column as the dependent variable and all other variables except ARR_DEL15 as explanatory variables. Recall that you need to transform the categorical variables ORIGIN and DEST before building the model. You also should not include all dummy variables you created. Exclude the dummy variables ORIGIN_SFO and DEST_SFO in your analysis. What is the RMS Error in Validation Data Scoring?

61.96

72.33

Correct

Bravo!

84.56

96.44

V

1/1 point 9.

Final Course Assignment Quiz

Practice Quie 20 questions model and interpret results.

Build a logistic regression model using the full dataset with ARR_DEL15 as the dependent variable and all other variables except ARR_DELAY as explanatory variables. Again you need to transform the categorical variables

ORIGIN and DEST before building the model. You also should not include all dummy variables you created. Exclude the dummy variables ORIGIN_SFO and DEST_SFO in your analysis.				
What is	the estimated intercept coefficient of the model?			
Corre	0.4656			
Brav				
	0.6564			
	2.4656			
	0.1121			
~	1 / 1 point			
10.	the estimated slope coefficient for DISTANCE ?			
VVIIat is	5.7023			
	9.0022			
0	0.002277			
Corr o Brav				
	1.2547			

1/1 point 11.

What is the multiple R-squared? Final Course Assignment Quiz

Practice Quiz, 20 questions

	2.5678
0	0.1420
Corr Brav	
	0.9989
	0.0021
[This s	1/1 point ne dataset into training and validation set using a 60:40 split. Set the random seed for partition to 12345. hould be the default value unless you changed it at some point.] Rebuild the model with the training data. t the precision on the validation set.
	0.2232
	0.6681
	0.6792
Corr Brav	
✓ 13.	1/1 point

By default, XLMiner using a cutoff threshold 0.5. Repeat the previous question with a cutoff threshold 0.3. What is

https://www.coursera.org/learn/predictive-modeling-analytics/quiz/fUhAt/final-course-assignment-quiz

the precision on the validation set?

0.2842

.,_0,_0 .0	· · · · · · · · · · · · · · · · · · ·	
0.3821 Final Course Assignment Quiz Practice Quiz, 20 questions		
Cor ı Bra		
	0.4728	
×	0 / 1 point	
14. Par	t 3	
Build	a classification tree and interpret results.	
	a classification tree with ARR_DEL15 as the dependent variable and all other variables except ARR_DELAY as natory variables. Treat ORIGIN and DEST as categorical variables in your analysis.	
	of the following variables appear to be the most important variables that explains flight delays according to e importance score?	
	CRS_ELAPSED_TIME	
0	DISTANCE	
	er to feature importance score in the bottom of the output sheet	
	DAY_OF_MONTH	
	DAY_OF_WEEK	



1/1 point

15

Split the dataset into training and validation set using a 60:40 split. Set the random seed for partition to 12345. [This should be the default value unless you changed it at some point.] Rebuild the tree with training data. Note: On parameters panel, check "Prune (Using Validation Set)."

What is the precision on the validation data for the single tree?

0.616438

Final Course Assignment Quiz

Practice of react 2 Respectisons

Bravo!



1/1 point

16.

What is the precision on the validation data for boosted tree? Note: In order to build the boosted tree, use Classify->Ensemble->Boosting.

0.6055

Correct Response

Bravo!



1/1 point

17.

What is the precision on the validation data for bagged tree? Note: In order to build the bagged tree, use Classify->Ensemble->Bagging.

0.6875



Correct Response

Bravo!



1/1 point

18.

Build a neural network with ARR_DELAY as the dependent variable and all other variables except ARR_DEL15 as explanatory variables. Treat ORIGIN and DEST as categorical variables in your analysis.

Final Course Assignment Quiz

Split the dataset into training and validation set using a 60:40 split. Set the random seed for partition to 12345.

Practice Quiz, 20 questions
[This should be the default value unless you changed it at some point.]

What is the smallest validation error in the column Validation: RMSE for the automatic neural net built using the training set? Note: To build automatic neural net, use Predict->Neural Network->Automatic Network. Set neuron weight initialization seed to 12345 in step 2.

228.87	
Correct Response	
Bravo!	



1/1 point

19.

What is the validation error (RMS Error) for the boosted neural net built using the training set? Use step size 0.3 for Boosting:Common; this is the default value if you did not change it. Note: To build boosted neural net, use Predict->Ensemble->Boosting. Set neuron weight initialization seed to 12345 in step 2.

813.236998555901

Correct Response
Bravo!



1/1 point

20.

Repeat the previous question. Change the step size for Boosting:Common to 0.03. What is the validation error (RMS Error)? This exercise shows that parameter tuning can have significant impact on the quality of the predictive model.

122.8516864

Correct Response

Bravo!

Final Course Assignment Quiz

Practice Quiz, 20 questions



