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Home » Computer Science Engineering (CSE) » Machine Learning (ML) » set 11

Machine Learning (ML) solved MCQs



11 of **31** « Set 10 Set 12 »

251. True or False: Ensemble learning can only be applied to supervised learning methods. A. true B. false discuss B.false

252. True or False: Ensembles will yield bad results when there is significant diversity among the models.Note: All individual models have meaningful and good predictions.

A. true

B. false

B.false

discuss

253. Which of the following is / are true about weak learners used in ensemble model?

- 1. They have low variance and they don't usually overfit
- 2. They have high bias, so they can not solve hard learning problems
- 3. They have high variance and they don't usually overfit





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254. True or False: Ensemble of classifiers may or may not be more accurate than any of its individual model. A. true B. false A.true dis 255. If you use an ensemble of different base models, is it necessary to tune the hyper parameters of all base models to improve the ensemble) AM	Machine Learning (ML) solved MCQ's with PDF Download [set-11]
254. True or False: Ensemble of classifiers may or may not be more accurate than any of its individual model. A true 5. false 4. true 6. false 255. If you use an ansemble of different base models, is it necessary to tune the hyper parameters of all base models to improve the ensemble beneformance? A yes 5. no 6. cant say 3. no 65 256. Generally, an essemble method works better, if the individual base models have	D. none of these	
A true	A.1 and 2	
8. filt you use an ensemble of different base models, is it necessary to tune the hyper parameters of all base models to improve the ensemble benchmance? A yes. B. no. C. can't say. 3.no. 256. Generally, an ensemble method works better, if the individual base models have	254. True or False: Ensemble of clas	sifiers may or may not be more accurate than any of its individual model.
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B. 0.06 C. 0.07	Suppose you are using averaging as prediction?	ensemble technique. What will be the probabilities that ensemble of above 25 classifiers will make a wrong
C. 0.07	A. 0.05	
	B. 0.06	
D. 0.09	C. 0.07	
	D. 0.09	

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259. In machine learning, an algorithm (or learning algorithm) is said to be unstable if a small change in training data cau the learned classifiers.True or False: Bagging of unstable classifiers is a good idea	se the large change in
A. true	
B. false	
A.true	discu
260. Which of the following parameters can be tuned for finding good ensemble model in bagging based algorithms? 1. Max number of samples 2. Max features 3. Bootstrapping of samples 4. Bootstrapping of features	
A. 1 and 3	
B. 2 and 3	
C. 1 and 2	
D. all of above	
D.all of above	discu
261. How is the model capacity affected with dropout rate (where model capacity means the ability of a neural network to functions)?	approximate complex
A. model capacity increases in increase in dropout rate	
B. model capacity decreases in increase in dropout rate	
C. model capacity is not affected on increase in dropout rate	
D. none of these	
	discu
B.model capacity decreases in increase in dropout rate	
B.model capacity decreases in increase in dropout rate 262. True or False: Dropout is computationally expensive technique w.r.t. bagging	
262. True or False: Dropout is computationally expensive technique w.r.t. bagging	











263. Suppose, you want to apply a stepwise forward selection method for choosing the best models for an ensemble model. Which of the following is the correct order of the steps?

Note: You have more than 1000 models predictions

- 1. Add the models predictions (or in another term take the average) one by one in the ensemble which improves the metrics in the validation set.
- 2. Start with empty ensemble
- 3. Return the ensemble from the nested set of ensembles that has maximum performance on the validation set
- A. 1-2-3
- B. 1-3-4
- C. 2-1-3
- D. none of above

D.none of above

discuss

264. Suppose, you have 2000 different models with their predictions and want to ensemble predictions of best x models. Now, which of the following can be a possible method to select the best x models for an ensemble?

- A. step wise forward selection
- B. step wise backward elimination
- C. both
- D. none of above

C. both

discuss

265. Below are the two ensemble models:

- 1. E1(M1, M2, M3) and
- 2. E2(M4, M5, M6)

Above, Mx is the individual base models.

Which of the following are more likely to choose if following conditions for E1 and E2 are given?







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C. any of e1 and e2

D. none of these

B.e2

B. e2

discuss

266. True or False: In boosting, individual base learners can be parallel.

A. true

B. false

B.false

discuss

267. Which of the following is true about bagging?

- 1. Bagging can be parallel
- 2. The aim of bagging is to reduce bias not variance
- 3. Bagging helps in reducing overfitting
- A. 1 and 2
- B. 2 and 3
- C. 1 and 3
- D. all of these

C.1 and 3

discuss

268. Suppose you are using stacking with n different machine learning algorithms with k folds on data.

Which of the following is true about one level (m base models + 1 stacker) stacking?

Note:

Here, we are working on binary classification problem

All base models are trained on all features

You are using k folds for base models

A. you will have only k features after the first stage

B. you will have only m features after the first stage

C. you will have k+m features after the first stage

D. you will have k*n features after the first stage

B.you will have only m features after the first stage

discuss

269. Which of the following is the difference between stacking and blending?

A. stacking has less stable cv compared to blending

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D.none of these

270. Which of the following can be one of the steps in stacking?

- 1. Divide the training data into k folds
- 2. Train k models on each k-1 folds and get the out of fold predictions for remaining one fold
- 3. Divide the test data set in "k" folds and get individual fold predictions by different algorithms
- A. 1 and 2
- B. 2 and 3
- C. 1 and 3
- D. all of above

A.1 and 2

discuss

271. Q25. Which of the following are advantages of stacking?

- 1) More robust model
- 2) better prediction
- 3) Lower time of execution
- A. 1 and 2
- B. 2 and 3
- C. 1 and 3
- D. all of the above

A.1 and 2

discuss

272. Which of the following are correct statement(s) about stacking?

A machine learning model is trained on predictions of multiple machine learning models

A Logistic regression will definitely work better in the second stage as compared to other classification methods

First stage models are trained on full / partial feature space of training data

- A. 1 and 2
- B. 2 and 3
- C. 1 and 3
- D. all of above

C.1 and 3

discuss

273. Which of the following is true about weighted majority votes?







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- A. Tand 3
- B. 2 and 3
- C. 1 and 2
- D. 1, 2 and 3

D.1, 2 and 3

discuss

274. Which of the following is true about averaging ensemble?

- A. it can only be used in classification problem
- B. it can only be used in regression problem
- C. it can be used in both classification as well as regression
- D. none of these

C.it can be used in both classification as well as regression

discuss

275. How can we assign the weights to output of different models in an ensemble?

- 1. Use an algorithm to return the optimal weights
- 2. Choose the weights using cross validation
- 3. Give high weights to more accurate models

- A. 1 and 2
- B. 1 and 3
- C. 2 and 3
- D. all of above

D.all of above

Set 12 »

« Set 10

discuss

1	2	3		4	5	6	7	8	9	10	11	12	13	14
15	16		7	18	8	19	20	21	22	23	24	25	26	27
28	29	3	80	3	1									

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