

## Kaggle Master-Week 2 Quiz

Toplam puan 100/100



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✓ Q1- Which of the following statements are true about the intended use of cross-validation? \*

I - To reduce randomness while measuring model performance.

II - To get a better measure of model performance.

III - To increase model's training performance.

IV - To increase MAE (mean absolute error) or MSE (mean squared error).

☐ I, II, IV

☐ II, III

☒ I, II



☐ All of them.

✓ Q2- Which of the following statements are true about LabelEncoder and OneHotEncoder? \* 10/10

I-They help us to deal with categorical values.

II-Label Encoding assigns each value to a different integer whether it is unique or not.

III-One Hot Encoding creates new column for every possible value in the original data.

IV-For large number of categorical variable count value (such as 15 different values) it is not good to use One Hot Encoder generally.

☐ I, II, IV

☒ I, III, IV



☐ I, II, III

☐ All of them.

✓ Q3- Which of the following statement is inconsistent with pipelines? \* 10/10

☐ With pipelines, there is less probability to forget a preprocessing step.

☒ It's hard to productionize a model with pipelines.



☐ You won't need to manually keep track of your training and validation data at each step with a pipeline.

☐ With a pipeline, we can use the cross-validation technique easily.



✓ Q4- `print(df.head().method())` Assume that you want to print locations of the missing values in the top 10 rows. Which method is suitable for this? \* 10/10

- ☐ `dropna(how='any')`
- ☐ `isnan`
- ☐ `notnull`
- ☒ `isnull`



✓ Q5- Which of the following is not a Booster parameter of XGBoost? \* 10/10

- ☐ `min_child_weight`
- ☒ `objective`
- ☐ `max_leaf_nodes`
- ☐ `colsample_bylevel`



✓ Q6- What do the highlighted code pieces mean? \*

10/10

```
x_train_plus = x_train.copy()
x_valid_plus = x_valid.copy()
for col in cols_with_missing:
    x_train_plus[col + '_was_missing'] = x_train_plus[col].isnull()
    x_valid_plus[col + '_was_missing'] = x_valid_plus[col].isnull()
my_imputer = SimpleImputer()
imputed_x_train_plus = pd.DataFrame(my_imputer.fit_transform(x_train_plus))
imputed_x_valid_plus = pd.DataFrame(my_imputer.transform(x_valid_plus))
imputed_x_train_plus.columns = x_train_plus.columns
imputed_x_valid_plus.columns = x_valid_plus.columns
```

- ☐ To make new columns indicating what will be imputed
- ☐ For imputation
- ☐ To make copy to avoid changing original data
- ☒ To put removed column names back



✓ Q7- Which of the below is/are nominal variable(s)? \*

10/10

I - Gender

II - Genotype

III - Religious preference

IV- IQ

V - Income earned in a week.

☐ I, II

☒ I, II, III

☐ II, III, IV

☐ All of them.



✓ Q8- Which of the following statements are true about “max\_depth” hyperparameter in Random Forest? \*

10/10

- I- Lower is better parameter in case of same validation accuracy
- II- Higher is better parameter in case of same validation accuracy
- III- Increase the value of max\_depth may overfit the data
- IV- Increase the value of max\_depth may underfit the data

☐ I, IV

☐ II, IV



☒ I, III



☐ II, III

✓ Q9- You will build a model to predict housing prices. The model will be deployed on an ongoing basis, to predict the price of a new house when a description is added to a website. Here are four features that could be used as predictors. Which of the features is most likely to be a source of leakage? \*

10/10

☐ Size of the house (in square meters)

☒ Average sales price of homes in the same neighborhood



☐ Latitude and longitude of the house

☐ Whether the house has a basement

✓ Q10- How is the Gradient Boosting cycle proceed? Please choose the correct order from the mixed statements below. \*

10/10

I- We add the new model to ensemble.

II- We use the current ensemble to generate predictions for each observation in the dataset.

III- We use the loss function to fit a new model that will be added to the ensemble.

☐ I-II-III

☐ I-III-II

☐ II-I-III

☒ II-III-I



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