MACHINE LEARNING

1. A) Least Square Error
2. A) Linear regression is sensitive to outliers
3. B) Negative
4. A) Regression
5. C) Low bias and high variance
6. B) Predictive modal
7. D) regularization
8. D) SMOTE
9. A) TPR and FPR
10. B) False
11. B) Apply PCA to project high dimensional data
12. All
13. .Regularization is a set of methods for reducing overfitting in machine learning models. Typically, regularization trades a marginal decrease in training accuracy for an increase in generalizability.
14. .Lasso regression AKA L1 regularization. ...
    Ridge regression AKA L2 regularization. ...
    Elastic Net (L1 + L2) regularization. ...
    Ensembling. ...
    Neural network dropout. ...
    Pruning decision tree-based models. ...
    Data augmentation.
15. An error term represents the margin of error within a statistical model; it refers to the sum of the deviations within the regression line, which provides an explanation for the difference between the theoretical value of the model and the actual observed results.