Machine learning assignment_1

1)A,B

2)A

3)B

4)C

5)C

6)B

7)D

8)D

9)C

10)B

11)B

12)A&C

13)Regularization: overfitting is a phenomenon that occurs when a machine learning algorithm model is constraint to training dataset and not able to perform well on unseen data.

Regularization is a technique used to reduce errors by overfitting the function appropriately on the given training set and avoid overfitting.

14) there are mainly three types of regularization methods

1)L1 regularization

2)L2regularization

1)LASSO regression :adds absolute value of magnitude of coefficients as penalty term to the loss function..

2)ridge regression adds" squared magnitude" of coefficient as penalty term to the loss function

3)dropout regularization is a technique where randomly selected neurons are ignored during training..They are dropped -out randomly..

15)

Error in linear regression is squared error difference between actual label and predicted label.

$E=(y-y\hat{})$ where y is actual label,$y\hat{}$ is the predicted label by ml algorithm