Machine Learning Worksheet

|  |  |
| --- | --- |
|  | (A) |
|  | (A) |
|  | (B) |
|  | (B) |
|  | (C) |
|  | (A) |
|  | (D) |
|  | (D) |
|  | (A) |
|  | (B) |
|  | (B) |
|  | (B, C) |

Answer 13.

A good way to reduce overfitting is to regularize the model i.e. constrain it by reducing its degrees of freedom or reduce the degree of the polynomial. For linear regression regularization is generally achieved by constraining the weights of the model. There are 3 different commonly used regularization methods used (1) Ridge regression (2) Lasso regression (3) Elastic Net

Answer 14.

3 commonly used regularization techniques are

1. Ridge Regression : This method of regularization is used when the data is highly correlated
2. Lasso Regression
3. Elastic Net

Answer 15.