

## INTERNSHIP (Task – 4)

### Machine Learning:-

- 1) A) Least Square Error
- 2) A) Linear regression is sensitive to outliers
- 3) B) Negative
- 4) B) Correlation
- 5) C) Low bias and high variance
- 6) B) Predictive model
- 7) D) Regularization
- 8) D) SMOTE
- 9) C) Sensitivity and Specificity
- 10) B) False
- 11) B) Apply PCA to project high dimensional data
- 12) (A), (B), (D)

13) Explain the term regularization?

Ans: Regularization refers to techniques that are used to calibrate machine learning models in order to minimize the adjusted loss function and prevent overfitting or underfitting.

14) Which particular algorithms are used for regularization?

Ans: There are three main algorithms, which are

1. Ridge Regression (L2 Norm)
2. Lasso (L1 Norm)
3. Dropout.

15) Explain the term error present in linear regression equation?

Ans: Within a linear regression model tracking a stock's price over time, the error term is the difference between the expected price at a particular time and the price that was actually observed.