

INDIAN STATISTICAL INSTITUTE SQC & OR Unit, HYDERABAD



This is to certify that

Bolla Manikanta Yuvarqiu

has Participated in the

Training Programme (online) on

Machine Learning

organized during July - September 2023

Date: 30 October 2023

(Dr. G S R Murthy)
Course Director

(Dr. S M Subhani)
Head, SQC & OR Unit

Coverage

Statistical Tools for Machine Learning

- Introduction to Machine Learning
- Statistical modelling
- Assessing model accuracy
- Brief introduction to handling statistical data using Python
- Linear regression
- Classification
- Logistic regression
- Discriminant analysis
- K-nearest neighbourhoods
- Cross validation and bootstrapping
- Linear model selection and regularization
- Polynomial regression
- Regression splines
- Generalized additive models
- Tree-based methods decision trees, bagging, random forests, boosting
- Support vector machines; Unsupervised learning principal component analysis, clustering.