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DATA MINING (Week 5)

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DSBA CURRICULUM DESIGN

FOUNDATIONS

Data Science Using Python

Statistical Methods for Decision Making

CORE COURSES

Advanced Statistics

Data Mining (Week-5/6)

Predictive Modelling

Machine Learning

Time Series Forecasting

Data Visualization

DOMAIN APPLICATIONS

Financial Risk Analytics

Web & Social Media Analytics

Marketing Retail Analytics

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LEARNING OBJECTIVE OF THIS MODULE

- Clustering
- CART & Model Performance Measures
- Random Forest
- Neural Network

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LEARNING OBJECTIVES OF THIS SESSION

- CART
- RANDOM FOREST
- NEURAL NETWORKS
- COMPARISION BETWEEN THE ACCURACY OBTAINED FROM DIFFERENT MODELS

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CASE STUDY - Diabetes

Management of hyperglycemia in hospitalized patients has a significant bearing on outcome, in terms of both morbidity and mortality. However, there are few national assessments of diabetes care during hospitalization which could serve as a baseline for change. This analysis of a large clinical database was undertaken to provide such an assessment and to find future directions which might lead to improvements in patient safety.

Based on the given data, build different models to predict whether the patient is suffering from Diabetes or not? Secondly Compare the model outputs of different models.

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ANY QUESTIONS

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HAPPY LEARNING

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