# CHAPTER 13: Imbalanced Datasets

## **Introduction**

## **Understanding The Business Context**

## **Exercise 13.01: Benchmarking the Logistic Regression Model on the Insurance Dataset**

## **Analysis of the Result**

## **Challenges of Imbalanced Datasets**

## **Strategies for Dealing with Imbalanced Datasets**

## **Collecting More Data**

* **Resampling Data**

## **Exercise 13.02: Implementing Random Undersampling and Classification on our Insurance Dataset to Find the optimal result**

* **Analysis**
* **Generating Synthetic Samples**
* **Implementation of SMOTE and MSMOTE**
* **Exercise 13.3: Implementing SMOTE on our Insurance Dataset to Find the Optimal Result**
* **Exercise 13.4: Implementing MSMOTE on our Insurance Dataset to Find the Optimal Result**
* **Applying Balancing Techniques on a HealthCare Dataset**
* **Activity 12.01: Finding the Best Balancing Technique by Fitting a Classifier on the HealthCare Dataset.**
* **Summary**