Tutorial for DBSCAN Clustering in Python Sklearn

Table of Contents

Introduction

1. What is DBSCAN Clustering Algorithm

Key Characteristics of DBSCAN Algorithm

- 2. Pre-requisite Concepts for DBSCAN
 - i) Epsilon Value (eps)
 - ii) Minimum Points minPts
 - iii) Types of Points in DBSCAN Clustering
- 3. DBSCAN Clustering Algorithm
- 4. Example of DBSCAN Clustering in Python Sklearn

Import Libraries

The Dataset

Applying Sklearn DBSCAN Clustering with default parameters

Applying DBSCAN with eps = 0.1 and min_samples = 8

Finding the Optimal value of Epsilon

Identifying Elbow Point with Kneed Package

Applying DBSCAN with Optimal value of Epsilon = 0.163

Conclusion