Abstract

Data mining is automatic process to find useful information from large data collection. Outlier is a pattern which is rarely appear in a dataset. mostly, data mining tasks emphasize on searching frequent patterns and override outlier. Behind of it abnormality, sometime outliers have very useful information. Outliers Play an important role in fraud detection, network monitoring and intrusion detection applications.

This Final Project had implemented one of outlier detection method called local sparsity coefficient (LSC). This method is developed from Local Sparsity Coefficient (LOF) . LSC is a method that uses high density regions as the framework.

LSC tested by datasets that have various distribution, dimension, and number of records. Testing and analysis result indicate that LSC provide high accuracy in detecting outlier with fast processing time

Keywords: outlier, LSC, density, accuracy , process time