

Big Data Mining: Frequent items and deep learning

Big data, particularly in some fields such as the stock market, often involve frequently occurring and changing data with implication on prices within high-frequency trading practices effecting low-latency trades. The purpose of this study is to research into dimensions of data mining such as frequently changed numeric value and time of most frequent items. This is because existing data mining algorithms are focused on mining frequent items with support and confidence that satisfy a minimum threshold. However, minimum support and confidence does not show interestingness of patterns in selecting actionable sequence that brings value to business. In order to measure business value, the study explores deep learning theory with occurrence frequency approach to develop a hybrid multistage approach that identifies interesting patterns for more informed decision making.