

Anomaly Detection in Credit Card Transaction and Analysis Using Microsoft Power BI

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Abstract: Nowadays, a huge amount of crime and fraud takes place. Similarly, fraud in credit cards occurs when a transaction is being done. To evaluate and visualize credit card fraud transactions we implement this project. Detecting Anomaly (Outliers) in credit card transactions using Pycaret library. Microsoft Power BI is the most trending tool to prepare dashboards and reports for getting meaningful insight from the data and helps to take business-driven decisions. Hence Microsoft helps to visualize anomalies in credit card transactions. Anomaly Detection is one of the important and new features of Microsoft Power BI. Pycaret being an open-source low-code machine library in python helps to detect the anomaly. The output which contains the outliers will be represented in the form of illustrative visuals, which will be easy to understand and interpret. Since the number of transactions is done throughout the year. Developing a Dashboard that helps to visualize the total history of transactions based on the dataset. Creating reports based on credit card transactions for a time span. With amazing visuals and creativity, it becomes quick to understand what the data is telling the stakeholder or company management

Keywords: Credit Card, Anomaly, Pycaret, Power BI.

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