* **Anomaly detection**-

Anomaly detection means identify unuseual or unexpected pattern in data.

These is used for frauds, errors and don’t follow normal behavior.

1. **Isolation forest-**

Isolation forest best for tabular data type, and use data when not related to time

And detects outliers and easy to use. **Unusual points get isolated faster**, meaning they are

anomalies, randomly split data points.

**Used in:-**

 Credit card fraud detection

 server log errors

 any kind of **structured, tabular data** (e.g., excel tables)

1. **Time series analysis-**

Time series analysis best for **time-based data type, and use** when data changes over time and you want to detect strange time behaviour and detects pattern breaks over time and use required time pattern

**Used in:-**

 Temperature monitoring

 Stock price spikes

 Server downtime trends