**Use Case - 3**

* Sector – **Manufacturing**
* Problem Statement – **To prevent machine breakdowns and reduce breakdown time, production losses and most importantly revenue loss.**
* Parameters – **Temperature, Vibrations, Runouts**
* Methodology **-** Production in modern manufacturing has very few critical cells or machines to depend on. The data used for real-time monitoring can be further analyzed to prevent machine failure and improve asset management. Data scientists make use of the knowledge of the machine and take note of the reasons why it may fail in order to make these predictions.

Process data indicating varied vibration and temperature is used in **big data** manufacturing to predict the failure of a machine beforehand. Tracing the deviations against the settings for optimum performance of machines, engineers can be signaled to take preventive measures when required creating the possibility for manufacturers to avoid critical failure.