**BUSINESS OBJECTIVE:**

To classify root causes of the transformer trip and also identify the strong parameters which are associated with transformer tripping.

Agenda to Achieve Goal

1. To Understand the Business Problem
2. Identify the variable which are relevant to our business problem
3. Collect Public available data or Synthesized data
4. Exploratory data Analysis (EDA)
5. Build Algorithms
6. Then based on the accuracy Shortlist the better Algorithms
7. Tune the hyper parameter in Final model
8. Then visualize the prediction result’s in Tableau

**Transformer Trip:**

When the flow in the circuit may disturb by any external conditions in Transformer we can say it as Transformer Trip.

Example: We will face problem of frequent tripping in Unit Station Transformer during heavy rain.

**Cause for Tripping:**

1. Tripping can be **caused** by a number of factors due to excessive amp draw. Primary **causes** of breaker tripping include poor wiring connections, improper wire sizing, too many lights on a run, and wrong **transformer** trip.
2. An overloaded **circuit** is the most common **reason** for a **circuit breaker** tripping.
3. Electrical **failure** typically involves line surges, which is a very common **cause of transformer failure**. Voltage spikes, switching surges and line faults are a few common culprits of electrical **failure**.
4. It also depends on the functioning of Fuses and Short Circuits in Circuit Breakers.
5. And there will be different causes associated for tripping
6. Over Voltage Is also one among the causes for Tripping. EX: Sometime in distribution transformer secondary voltage shows 260-270 instead of 230v. For this reason many electrical equipment get damaged