Unit-1

- ❖ **MLE**
- ❖ **Bernoulli distributions parametric**
- ❖ **IBM's Watson AIOps automates for IT anomaly detection.**
- ❖ **Model Selection and metric**

Unit-2

- ❖ **Linear Regression and Polynomial Regression (Theory and Numerical)**
- ❖ **T-test and Z-test (Theory and Numerical)**
- ❖ **Null Hypothesis**
- ❖ **Tailed test**
- ❖ **Model Selection Parameters**

Unit-3

- ❖ **Pattern Detection with respect to various Parameters**
- ❖ **K-Means Algorithm and its application**
- ❖ **Neural Networks**
- ❖ **Random Forest and Decision Tree**
- ❖ **Naïve Bayes**
- ❖ **Hidden Markov Model**

Unit-4

- ❖ **Anomaly Detection**
- ❖ **Anomaly Detection's based on various parameters**

Unit-5

- ❖ **IBM's Watson AIOps automates IT anomaly detection and remediation.**
- ❖ **The real-world impact of anomaly detection, Anomaly detection on 5G: Possibilities and opportunities**
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