**RoboFault**

The UR3 CobotOps Dataset is an essential collection of multi-dimensional time-series data from the UR3 cobot, offering insights into operational parameters and faults for machine learning in robotics and automation. It features electrical currents, temperatures, speeds across joints (J0-J5), gripper current, operation cycle count, protective stops, and grip losses, collected via MODBUS and RTDE protocols. This dataset supports research in fault detection, predictive maintenance, and operational optimization, providing a detailed operational snapshot of a leading cobot model for industrial applications

**ToDo**

* EDA
* Data Cleansing & Preparation
* ML data preparation
* Classical ML
* Anomal Detection
* Apply the business case with GUI input | output

**Recommedations To Study**

* Time series Forecasting
* Anomaly Detection