

Predictive Maintenance

Link: <https://github.com/ShahilGuptaa/PredictiveMaintainance>

The Automated Manufacturing State Prediction project aims to predict the state of an automated manufacturing unit based on data from 25 sensors. The project utilizes advanced predictive techniques and sensor data to optimize machinery functionalities and ensure reliable operations.

The project involved a comprehensive analysis of sensor data, feature engineering techniques, data preprocessing, and model selection. By employing bi-directional LSTM with transpose transformations, an outstanding accuracy of 96.6% was achieved.

The project demonstrates the effectiveness of advanced models in accurately predicting the state of the automated manufacturing unit based on sensor data.