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| Today, I began testing the AI-supported anomaly detection system I developed with real data. As part of the work, I used data from a temperature sensor inside a refrigerator to try to detect when the refrigerator was opened, whether there was a power outage, and whether the door was left open.  The dataset consists of temperature measurements taken every 3 minutes. From my observations, I noticed that when the refrigerator reaches a certain temperature (around 7.8°C), the cooling system activates, and when the temperature drops to 6.5°C, the cooler turns off. This cycle creates a typical “cos-like” temperature graph that indicates the refrigerator is functioning properly.  However, the system still detects this regular operating pattern as a “malfunction.” In other words, it cannot distinguish between the temperature deviations caused by the door being left open or a power outage, and the normal on/off cycles of the cooling system. This lowers the accuracy of the analysis results.  To solve this problem, I aim to define new rules that will allow the system to better learn the normal operating pattern and introduce these patterns to the model as “normal.” In this way, only actual deviations (such as the door being left open for a long time, power outages, etc.) will be detected as anomalies. | | | |
| **Sayfa No** | **Çalışmanın** | | **KONTROL** |
|  | Konusu :.........................................  ......................................................... | Yapıldığı Tarih  ...../..../202.. | ......................................  ...................................... |