PREDICTIVE MAINTENANCE OF INDUSTRICAL DUCT FAN USING MACHINE LEARNING



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Business: B2C

We approached NGP Surya cold storage Pvt Ltd and Thirumala Tirupathi Agro cold storage Pvt Ltd.

The cost of the product is 3500/- and Revenue per annum is 84 lakhs. We can sell our product to industries through direct marketing and online listing.

Contributors:

Sandeep – How to simulate real time problem on the duct fan and improvisation in accuracy.

Ramana – Apply this product to A/C to increase the market.

Customer Stories:

NGP Surya cold storage Pvt Ltd said that, to improve accuracy level of our product, so we can predict better.

Technology:

Machine learning algorithm

IoT – Arduino Due, Accelerometer, Ethernet Shield.

Problem: Inefficient operations of the duct fans due to improper maintenance.

Product: A predictive maintenance system which alerts when the efficiency of the duct fan deteriorates.

Progress:

* Week1: Redesign of prototype.
* Week2: Meeting Cold Storage Company.
* Week3: Building the product with new design.
* Week4: Planning the financial model.
* Week5: Improved test scenarios of product.
* Week6: Final improvisations of the product

Initial Prototype: We used accelerometer to collect vibrations. 