PREDICTIVE MAINTENANCE OF INDUSTRICAL DUCT FAN USING MACHINE LEARNING



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**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.

**Business:** B2C

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

The cost of the product is 2500/- and Revenue per annum is 50 lakhs. We can sell our product to industries through direct marketing and online listing.

**Contributors:**

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

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

**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.

