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#### **CONGRATULATIONS TO ALL MEMBERS !!!**

We have been regularly sharing our company updates, employee recognitions, awards, festivities and much more on our LinkedIn page.

We are very happy to share that Rucha Engineers is now a family of 3000+ members on LinkedIn. This



#### Thank You!!!

was possible only because of your continued support. Keep following us on our LinkedIn page for timely and continuous updates

https://www.linkedin.com/company/rucha-engineers-p-ltd



At the same time, we also feel very proud to share that Rucha Yantra's LinkedIn family is also growing and has surpassed 4000+ followers last month. We cannot thank you enough for engaging on our updates on LinkedIn and helping our company grow on LinkedIn. With your support we sure will reach greater heights. Keep following!

https://www.linkedin.com/company/ruch a-yantra-llp/

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### 5 REASONS WHY YOUR WAREHOUSE NEEDS MACHINE LEARNING

Welcome back as we conclude the Machine Learning (ML) series with this last interesting piece. We began the series by understanding what ML means. After which we looked at the different technical approaches that can be taken under ML. In the last blog, we focus more



on the impact of ML on manufacturing. We have tried to bring ML in more simplistic terms to our friends from manufacturing. And thus, we shall conclude the series with a piece on how you can use ML to enhance warehousing processes – a crucial component of the manufacturing cycle. Advancements in technology are not new to warehouses, and ML is just the latest one on the block. However, it is significantly more impactful and rewarding. Want to know how? Read on!

#### **Improves Supply Chain Management:**

ML systems are predominantly designed to pick up patterns. If presented with data on your entire supply chain cycle, it may identify underlying patterns, point out defect-prone situations and areas with the scope of improvement. Such an automated and computer-driven analysis can render the entire supply chain more efficient. While humans can and still do much of the same things, it takes them significantly more time with the possibility of missing out on errors.

### **Integrates Automation into Warehouse Production:**

Alibaba runs its warehouses almost entirely on robots.

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### 5 REASONS WHY YOUR WAREHOUSE NEEDS MACHINE LEARNING

Over 70% of tasks that would usually require a human are performed by robots. Likewise, many companies are moving toward automated warehouses wherein jobs from preparing packages for shipment to tracking inventory have been automated. All the robots in such warehouses are backed by ML and thus, improve their efficacy over time through continuous 'learning.'



While the initial investment is quite a lot and ML-powered automation may eliminate many jobs, it is highly efficient and rewarding.

**End-to-end Product Organization:** Humans may find the job of organizing products in a warehouse monotonous. Registering the entry of a shipment, placing them at the designated location and retrieving it when required, keeping an accurate track of the inventory, etc., can prove time-consuming. However, when ML-powered systems are handed over the same tasks, they take only a fraction of the time. The tasks are completed a lot more quickly, and without errors, your employees are left with more time to perform tasks that only humans can accomplish.

**Reduces Waste:** Consumable products such as food and beverages, dairy, etc., have a specific expiration date. They must be sold and moved out of the warehouse before the particular date; otherwise, they are discarded.

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### 5 REASONS WHY YOUR WAREHOUSE NEEDS MACHINE LEARNING

They must be thrown away as waste – a revenue loss for the company. Humans may forget to check the expiration date or fail to keep track, and thus, products might go to waste. ML can help solve this issue. ML-powered machines keep track of the sell-by dates and ensure that the products with nearer expiration dates are moved out first.

Improves Warehouse Safety: Large warehouses require large machinery to move products around and have hard-to-reach places which are difficult to negotiate. An accident involving a large machine can prove to be fatal, let alone dangerous for an employee. However, such a threat to life can be eliminated if you integrate intelligent ML-powered machines into the warehouse. The likelihood of accidents is highly reduced if robots drive large machines or store inventory in hard-to-reach places. And even if an accident occurs, a human would not suffer the consequences.

Although relatively new, machine learning has begun showing its rewards across the world. As more and more warehouse owners implement ML-powered systems, we shall see greater and newer benefits. One thing is for sure, Machine Learning has the power to revolutionize warehousing operations.

We hope we have been able to provide meaningful value to our readers regarding Machine Learning. Stay tuned to our <u>Knowledge Corner</u> as we take up another exciting topic – the impact of robotics in healthcare. We are dedicated to using nextgen technologies in our products and delivering their benefits to our customers.

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### SPECIAL PROJECTS, EVENTS & AUDITS

### NEW 315 TON PRESS MACHINE SUCCESSFULLY INSTALLED AT PLANT VII

# New arrivals is for progress & prosperity!

Its a proud moment for us Ruchaites to have successfully installed the new 315 ton press machine on the auspicious day of Gudi Padwa / Ugadi. The press machine was inaugurated by hands off MD Sir.



This press machine is one of a kind with higher Stroke per Minute (SPM) and many more features for faster and efficient manufacturing. This new press machine is part of a larger consignment which will enable us to achieve greater production capacities which will translate to more business!

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#### **NATIONAL WELDING SEMINAR 2020-2021**

Rucha Yantra participated in the National Welding Seminar 2020-2021 as a title sponsor, one of the largest welding expo in India covering modern techniques and future technologies for welding. The seminar was held virtually between 8th to 10th April 2021.

The seminar also witnessed Mr. Rohit Dashrathi (Founder Rucha Yantra) delivering an insightful speech which made it even more special and personal for us all.

To watch the speech, please click on link below.

https://youtu.be/ODLhZE4r4Yo



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#### **COMMONLY USED JAPANESE WORDS IN MANUFACTURING**

Daily in our company we see many Japanese words which we end mugging up. Have we ever wondered, why are these terms being used for a manufacturing setup? The paragraph below may help you to shed some light on it.

Most of the Japanese terms below are part of a larger system known as TPS (Toyota Production System). Meaning these terms were first introduced and developed by Toyota from 1948 to 1975.

This TPS is a comprehensive manual consisting of various management practices and philosophies explained through the words listed below and are practiced in Toyota. The world seeing the efficiencies achieved through this manual, adopted to these practices which are seen in our company as well!

**Kaizen** – The philosophy of continual improvement. It also means "improvement" or "change for the better".

**Kanban** – A card or sheet used to authorize production or movement of an item.

**Karoshi** – death from overwork.

**Keiretsu -** Originally means line or row, is a type of a business group comprised of a set of companies with interlocking business relationships and shareholdings.

**Mizusumashi -** The classic 'water spider', who performs a wide range of tasks which allow workers to perform 'value-added' tasks.

**Mokeru** – The Japanese term for the industrial engineering, more properly translated as "profit-making industrial engineering".

**Muda (waste)** – Activities and results to be eliminated.

**Mura** – Inconsistency.

Muri - Unreasonableness.

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#### **COMMONLY USED JAPANESE WORDS IN MANUFACTURING**

**Nagara** – Smooth production flow, ideally one piece at a time, characterized by synchronization of production processes and maximum utilization of available time, including overlapping of operations where practical.

**Ninjutsu** – The art of invisibility.

**Nenko Joretsu - Is** the of promoting an employee based on their proximity to retirement.

**Poka-Yoke** – A defect warning system.

**Teian – A** proposal, proposition, or suggestion. This can be likened to a system which allows and encourages workers to actively propose process and product improvements.

Seiri – Eliminating everything not required for the work being performed

Seiton – Efficient placement and arrangement of equipment and material

**Seiso** – Tidiness and cleanliness

Seiketsu – Ongoing, standardized, continually improving seiri, seiton, seiso

**Shitsuke** – Discipline with leadership

**Shushin Koyo -** Lifetime employment

**Seiban -** "Sei", which means manufacturing, and "ban", which means number. A Seiban number is assigned to all parts, materials, and purchase orders

**Sensei -** One who provides information; a teacher or instructor.

**Shojinka -** Continually optimizing the number of workers in a work center to meet the type and volume of demand imposed on the work center.

**Soikufu -** Creative thinking or inventive ideas.







## "I grow not because I know, I grow because I learn ..."

Below are the trainings arranged for our employees relevant to their work areas.



Sr. No	Training Topic	Participants
1	'Elevating the "Human" in Human Capital'	09
2	National Welding Seminar (NWS 2020-21)	06
3	Industrial Safety - Shop Floor Perspective	87
4	Core Tools	05
5	VDA 6.3 Training	05
6	IATF Awareness	20
7	Webinar: Transform Automotive Manufacturing by Embracing Industry 4.0	08
8	Apprenticeship Awareness webinar under Strive	05
9	Customer Specific Requirements(CSR)	14
10	Interaction with Industry on initiatives taken by Labour Commissionerate.	01
TOTAL		160

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## POPULAR BOOKS AVAILABLE AT OUR LIBRARY...!! SUGGESTED TO READ

This book is a Translated Marathi Version of "Swapnakdun Sattykade" by Anita Madhuri Shanbhag. The book story provides invaluable learning from Kalpana Chavla.

Introduction: There was no ideal next to her She picked one by one and made it his pole star. And looking at it, she kept taking steps. Created a new wait, ideal for the back. Like a meteor, it disappeared in an instant ... The ashes were of the body. The fire that burns thoughts and ideals has not yet been born. Just a week before the incident, Kalpana Chawla had sent a message to her professors from Columbia. 'The path from dream to truth exists. You just have to be more discriminating with the help you render toward other people.'



The message of the idea was not just a word, but a written reality, a reality that she had faced all the risks and succeeded in doing, something that did not happen in an instant. No one had a concrete ideal before the idea - now it has become the ideal of many!

Happy reading.....!! Explore many such worthy books of your choice through our Library Management System, available on Rucha portal.

https://www.rucha.co.in/portal/index.php/LMS/LMS\_cntr/user\_DashBoard

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### **MOTIVATIONAL STORY: THE POWERFUL PEOPLES**



A man and a young teenage boy checked into a hotel and were shown to their room. The receptionist noted the quiet manner of the guests and the pale appearance of the boy. Later, the man and boy ate dinner in the hotel restaurant. The staff again noticed that the two guests were very quiet and that the boy seemed disinterested in his food.

After eating, the boy went to his room and the man went to ask the receptionist to see the manager. The receptionist initially asked if there was a problem with the service or the room, and offered to fix things, but that problem of the the man said there was no sort and repeated his request. When the manager appeared, he took him aside and explained that he was spending the night in the hotel with his fourteen-year-old son, who was seriously ill, probably terminally so. The boy was very soon to undergo therapy, which would cause him to lose his hair. They had come to the hotel to have a break together and also because the boy planned to shave his head, that night, rather than feel that the illness was beating him. The father said that he would be shaving his own head too, in support of his son.

He asked that staff be respectful when the two of them came to breakfast with their shaved heads.

The manager assured the father that he would inform all staff and that they would behave appropriately.

The following morning the father and son entered the restaurant for breakfast. There they saw the four male restaurant staff attending to their duties, perfectly normally, all with shaved heads.

No matter what business you are in, you can help people and you can make a difference.





RESPECT

Honor for Dignity & Sanctity

**U**RGE

To strive for Innovation and Excellence

CONFIDENCE

To welcome and Embrace Change

HONESTY

Stand for
Truth and
Transparency

**A**MBITION

Strong Drive for Growth

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