



Productivity Efficiency in the Company

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Problem Statement :



- Welcome to **H&M** The key player of the industrial globalization of this modern era. **H&M** is a highly labour-intensive industry with lots of manual processes. Satisfying the huge global demand for garment products is mostly dependent on the production and delivery performance of the employees in the manufacturing companies.
- So, it is highly desirable among the decision makers in the industry to track, analyse and predict the productivity performance of the working teams in their factories.



AIM

- Share the important features to improve the productivity.
- Can we use regression to predict the productivity range (0-1), if yes what's the R^2 score of the model?
- Suggestion for **H&M** Company.





Dataset Attributes

01 date : Date in MM-DD-YYYY

02 day : Day of the Week

03 quarter : A portion of the month. A month was divided into four quarters

04 department : Associated department with the instance

05 team_no : Associated team number with the instance

06 no_of_workers : Number of workers in each team

07 no_of_style_change : Number of changes in the style of a particular product

08 targeted_productivity : Targeted productivity set by the Authority for each team for each day.

09 smv : Standard Minute Value, it is the allocated time for a task

10 wip : Work in progress. Includes the number of unfinished items for products

11 over_time : Represents the amount of overtime by each team in minutes

12 incentive : Represents the amount of financial incentive (in BDT) that enables or motivates a particular course of action.

13 idle_time : The amount of time when the production was interrupted due to several reasons

14 idle_men : The number of workers who were idle due to production interruption

15 actual_productivity : The actual % of productivity that was delivered by the workers. It ranges from 0-1.

All the Best

