Employee Attrition Analysis

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01 Business Problems

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Business Problems



- Is the attrition rate in the company high? Why?
- Who is most likely to leave the job?
- Which aspects should the company focus on to reduce the employee attrition?



Exploratory Data Analysis



The factors having relationship with attrition **()**

Income

- Daily Rate
- Monthly Income
- Stock Option Level

Employee Satisfaction

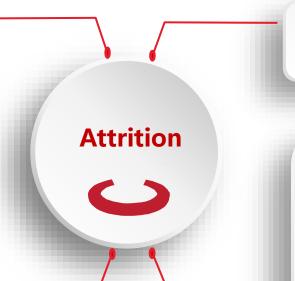
- Environment Satisfaction
- Job Satisfaction
- Job Involvement



- Education Field
- Marital Status

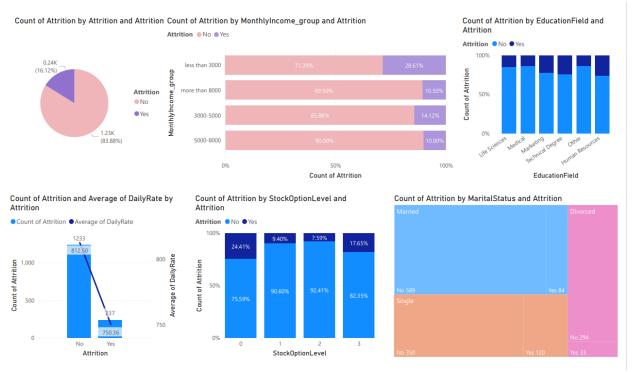
Working Status

- Business Travel
- Department
- Job Level
- Job Role
- Number of Companies Worked
- Over Time
- Total Working Years
- Training Times in Last Year
- Years At Company
- Years In Current Role
- Years With Current Manager



Income, education, marital status Vs Attrition





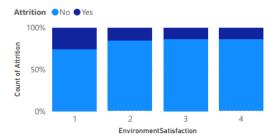
- The attrition rate of the company is high.
- The lower of employee's income, the greater employee attrition.
- The employee who is single is more likely to leave the job.

Employee Satisfaction Vs Attrition **()**

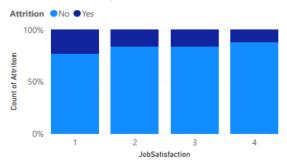


The lower employee satisfaction, the more likely employee attrition.

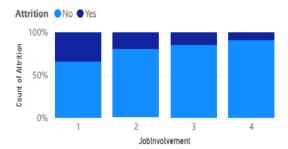
Count of Attrition by EnvironmentSatisfaction and Attrition



Count of Attrition by JobSatisfaction and Attrition

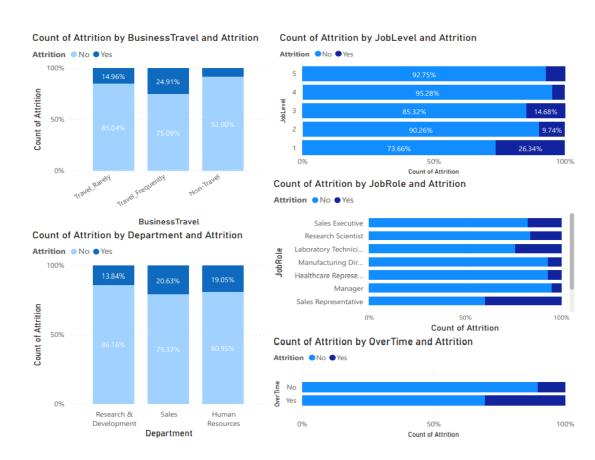


Count of Attrition by JobInvolvement and Attrition



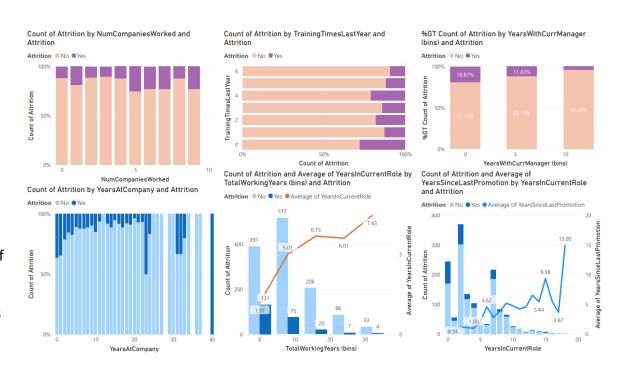
Working Status Vs Attrition **()**

- Who is more likely to leave the job?
 - Who travels frequently or often works overtime
 - Whose job level is lower
 - Whose position or department is relevant to sales

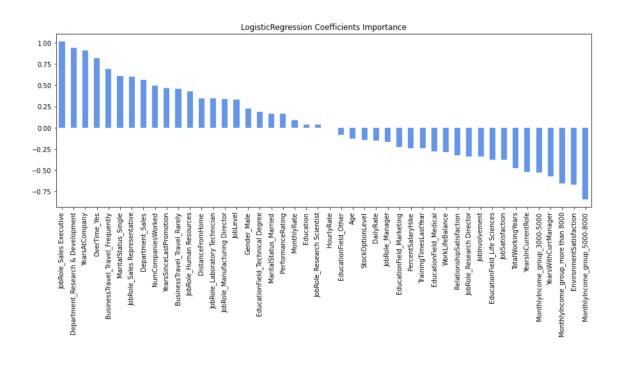


Working Status Vs Attrition **()**

- Who is more likely to leave the job?
 - Who works in the company in the first 3 years
 - Who starts a new role in the company in the first 3 years
 - Who works in a job role for 7
 years because of the difficulty of
 getting a promotion
 - Who works for more companies



Important Factors **()**



Top 5 factors influencing attrition:

- Monthly Income
- Employee Satisfaction
- Years at company
- Overtime
- Business Travel

Conclusions **()**

• The company is facing the problem of a high employee attrition rate, and the main reasons are:

Lower employee income

Lower employee satisfaction

Higher working pressures, such as working overtime, traveling frequently, etc.

- Which employee is most likely to leave the job?
 - Who is single
 - Who is in the sales department or in the role of sales
 - Who works less than 3 years or in a lower job level in the company
 - Who has worked in a role for 6-8 years and finds it difficult to be promoted
 - Who attends fewer training sessions

Recommendations ()

- Making an affordable strategy of employees' income improvement.
- More involvement to improve employee satisfaction, such as improving the working environment, reducing work pressure, etc.
- Striving to retain employees who have worked for 6-8 years in a role with higher pay or promotions for their proficiency in it.
- Improving staff training to promote staff growth and engagement within the company.
- Preparing for regular recruitment of the roles, in which the employee tends to work for less than 3 years.

