

# Report on Employee Attrition Analysis at Green Destinations

## Objective

The HR Director at Green Destinations has observed an increase in employee attrition and seeks to understand the trends and patterns behind this phenomenon. The main objectives are:

1. To calculate the attrition rate.
2. To analyze the influence of factors like age, years at the company, and monthly income on attrition.
3. To develop a predictive model to identify employees likely to leave the company.

## Data Overview

The dataset contains various attributes of employees, including age, years at the company, monthly income, and whether the employee has left the company (attrition).

## Attrition Rate Calculation

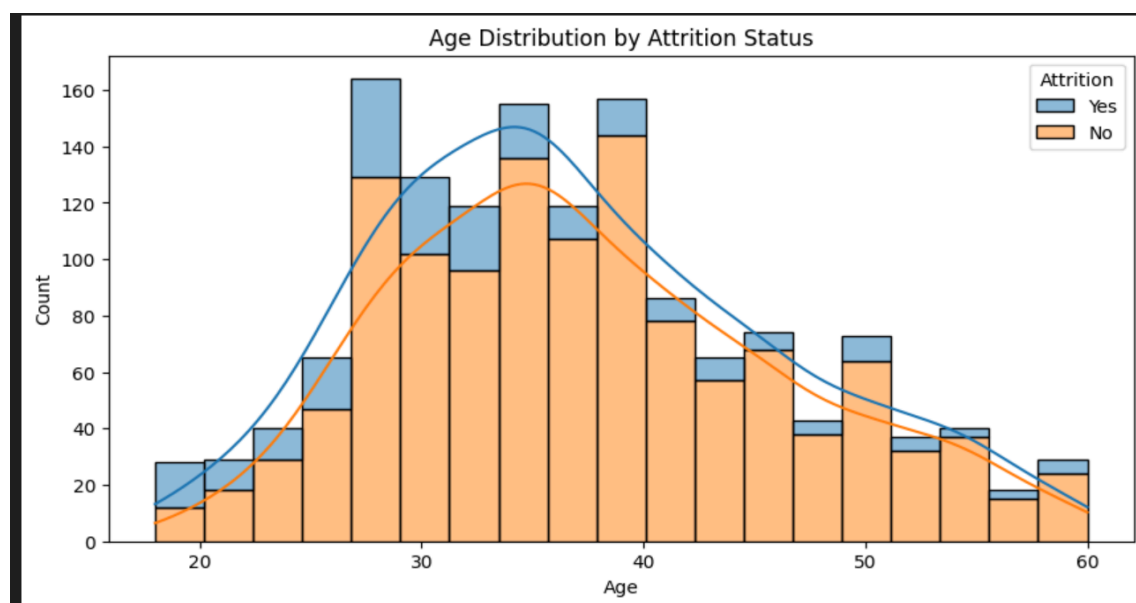
The attrition rate is calculated as the percentage of employees who have left the company.

- **Total Employees:** 1250
- **Employees Left:** 202
- **Attrition Rate:**  $\frac{202}{1250} \times 100 = 16.12\%$

The factors like Age, years at company and income also play an important role in determining if people will leave or not and this is shown below:

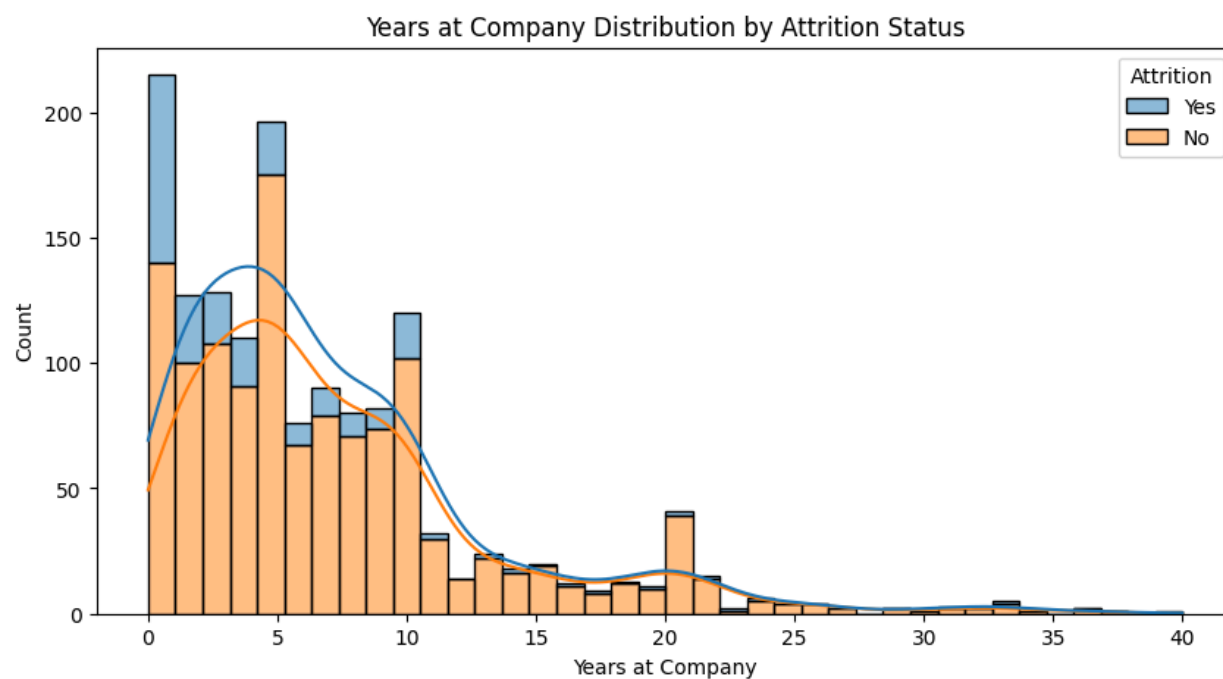
Age Statistics by Attrition Status:

Attrition	count	mean	std	min	25%	50%	75%	max
No	1233.0	37.561233	8.88836	18.0	31.0	36.0	43.0	60.0
Yes	237.0	33.607595	9.68935	18.0	28.0	32.0	39.0	58.0



Years at Company Statistics by Attrition Status:

Attrition	count	mean	std	min	25%	50%	75%	max
No	1233.0	7.369019	6.096298	0.0	3.0	6.0	10.0	37.0
Yes	237.0	5.130802	5.949984	0.0	1.0	3.0	7.0	40.0



Monthly Income Statistics by Attrition Status:

Attrition	count	mean	std	min	25%	50%	75%	max
No	1233.0	6832.739659	4818.208001	1051.0	3211.0	5204.0	8834.0	19999.0
Yes	237.0	4787.092827	3640.210367	1009.0	2373.0	3202.0	5916.0	19859.0

