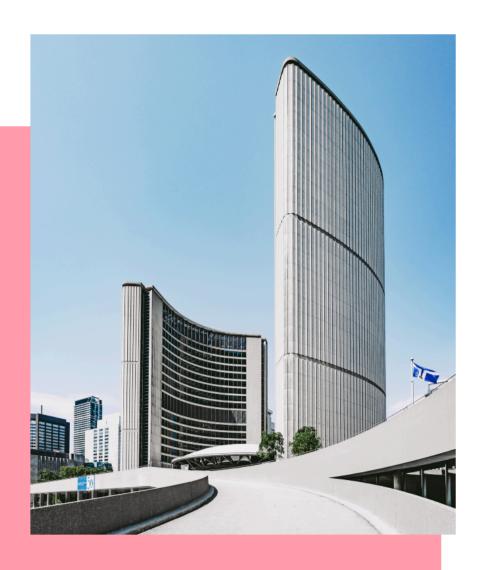
XYZ Company



Context

XYZ maintains a workforce of approximately 4,000 employees. However, around 15% of employees leave the organization every year, either voluntarily or involuntarily.

This level of attrition presents several challenges, including:

- Delays in project delivery, affecting timelines and client/partner trust
- · Increased recruitment efforts and associated costs
- · Productivity gaps, as new hires require onboarding and adjustment time

This analysis aims to identify key workforce characteristics and workplace factors that are strongly associated with employee attrition. The goal is to provide data-driven insights to support strategic HR decisions, reduce turnover-related risks, and improve overall workforce stability.



Total employees







16%



1764 40%

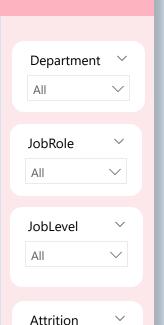
Female

Male 2646 60%



11.3

Overview

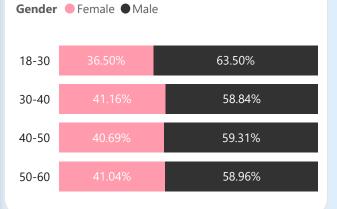


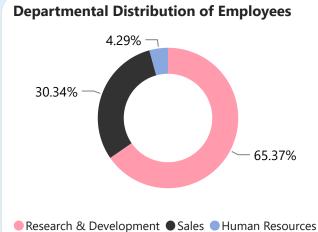
Attrition

 \vee

ΑII

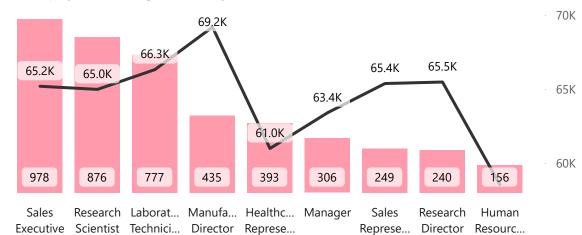






Education Level Distribution by Department ■ Below College ■ College ■ Bachelor ■ Master ■ Doctor Research & Development 18.31% 39.44% 26.74% 21.30% 37.89% 27.58% Sales 28.57% **Human Resources** 38.10%

Headcount & Monthly Income per Job Role ■ Total Employees ■ Average of MonthlyIncome



AVG Monthly Income and Performance Rating by Department, Job Role and Job Level

Department	Avg of Monthly Income ▼	Avg of Performance Rating
⊞ Research & Development	67188.0	3.2
⊞ Sales	61384.5	3.1
	57904.4	3.1
Total	65029.3	3.2

UNDERSTANDING ATTRITION: EXPLORATORY ANALYSIS



Attrition Rate

Average Tenure

MED Monthly Income

Bachelor Degree or Higher Rate







₹ 49.2K



2.73

Avg Job Involvement

3.15

Avg Performance Rate

2.72

Avg Job Satisfaction

2.72

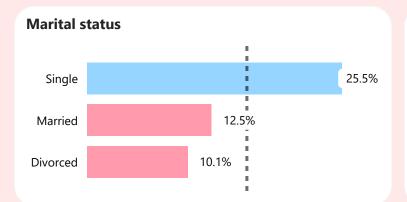
Avg Environment Satisfaction

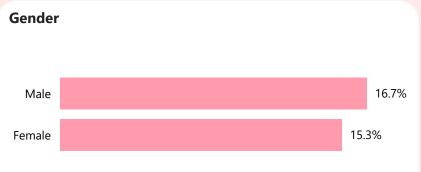
Demographics

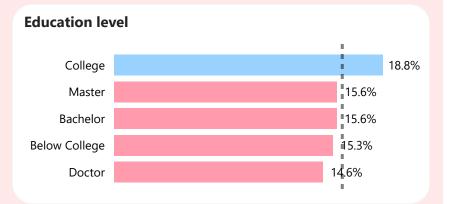
Job and Career

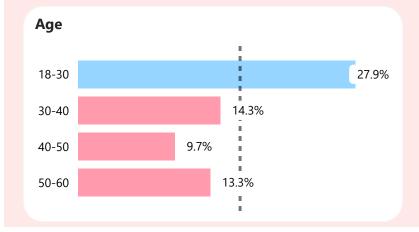
Work Experience

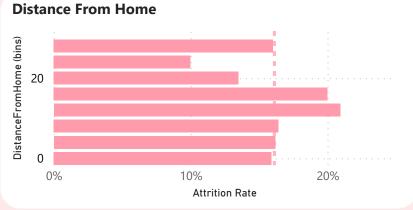
Compensation & Benefit

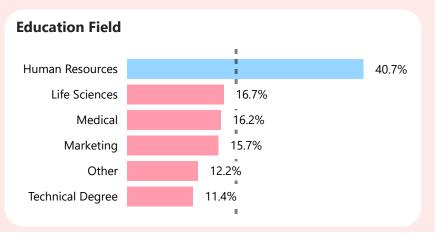












Among those who left, how many had low job satisfaction?

28%

P(Fx | Attrition)

In the whole company, how many employees have low job satisfaction?

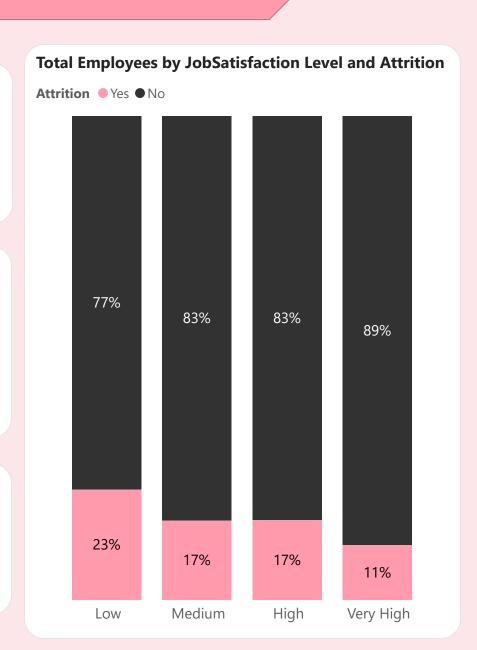
20%

P(Fx = Low Job Satis)

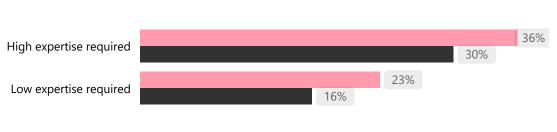
What is the overall attrition rate?

16.2%

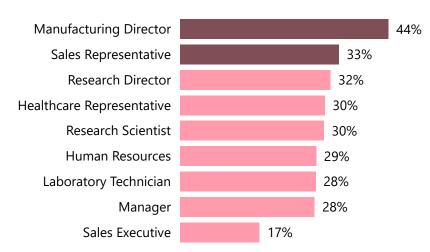
P(A)







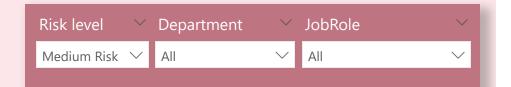








ATTRITION RISK OF ACTIVE EMPLOYEES



EmployeeID	Probability -	Age	Gender	MaritalStatus	Department	EducationField	EducationFieldMatch	JobRole	JobLevel Mo
416	35%	33	Female	Single	Sales	Marketing	Marketing	Sales Executive	1
1886	35%	33	Female	Single	Sales	Marketing	Marketing	Sales Executive	1
3356	35%	33	Female	Single	Sales	Marketing	Marketing	Sales Executive	1
427	34%	40	Male	Divorced	Research & Development	Medical	Life Sciences, Medical	Research Scientist	2
878	33%	46	Male	Single	Research & Development	Technical Degree	Life Sciences, Medical, Technical Degree	Laboratory Technician	1
2348	33%	46	Male	Single	Research & Development	Technical Degree	Life Sciences, Medical, Technical Degree	Laboratory Technician	1
3818	33%	46	Male	Single	Research & Development	Technical Degree	Life Sciences, Medical, Technical Degree	Laboratory Technician	1
53	31%	31	Male	Married	Sales	Marketing	Marketing	Sales Executive	2
2993	31%	31	Male	Married	Sales	Marketing	Marketing	Sales Executive	2
3367	30%	40	Male	Divorced	Research & Development	Medical	Life Sciences, Medical	Research Scientist	2