





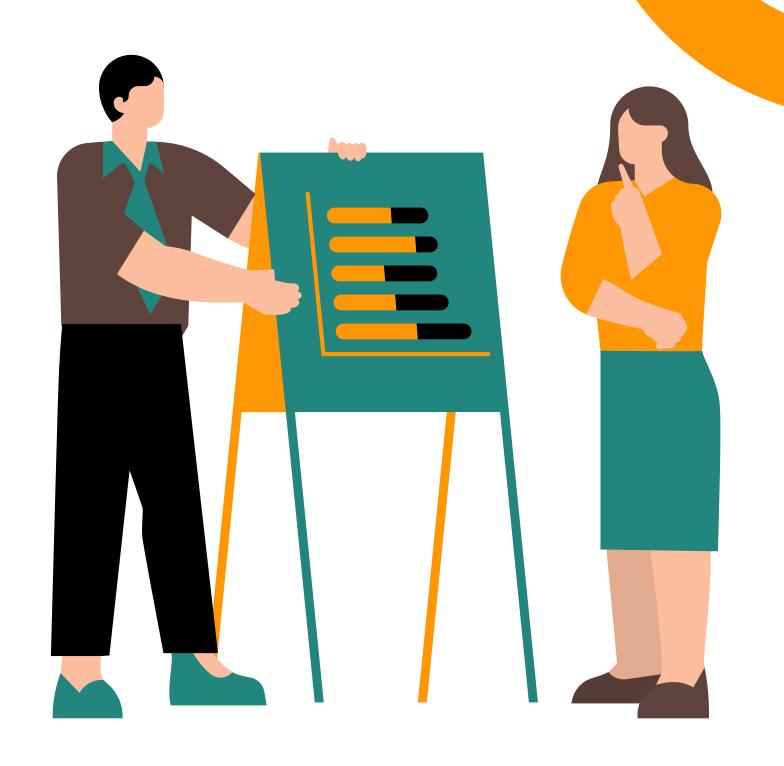
HRANALYTICS DASHBOARD

Turning Data into Actionable Insights

YAT404B_CAI2_DAT2_S2_DEPI2

CONTRIBUTORS • • •

- Yousef Abdalla Agaiby Faleh
- Yassen Khaled Lotfy Ahmed
- Kerolos Hani Nabil Zaki
- Mohammad Walid Hosny Hussein
- Noreen Mohamed Ashraf Hassen
- Taghrid Yasser Gomaa Eid



GOAL OF THE REPORT





To present clear, data-driven insights that support HR decision-making in areas like performance, attrition, satisfaction, and compensation.

Approach Used:

- Narrative storytelling with data
- Interactive visuals and KPI summaries
- Insight-based layout for guided exploration

- introduction
- Data Modeling Overview
- Visualization
- Executive Summary
- Recommendations
- conclusion

REPORT STRUCTURE



INTRODUCTION

Every organization wants to build a strong, loyal workforce — but what drives employees to stay, succeed, or leave?

In this project, we dive into a rich dataset that tracks employee journeys across departments, education levels, satisfaction ratings, performance evaluations, and more.

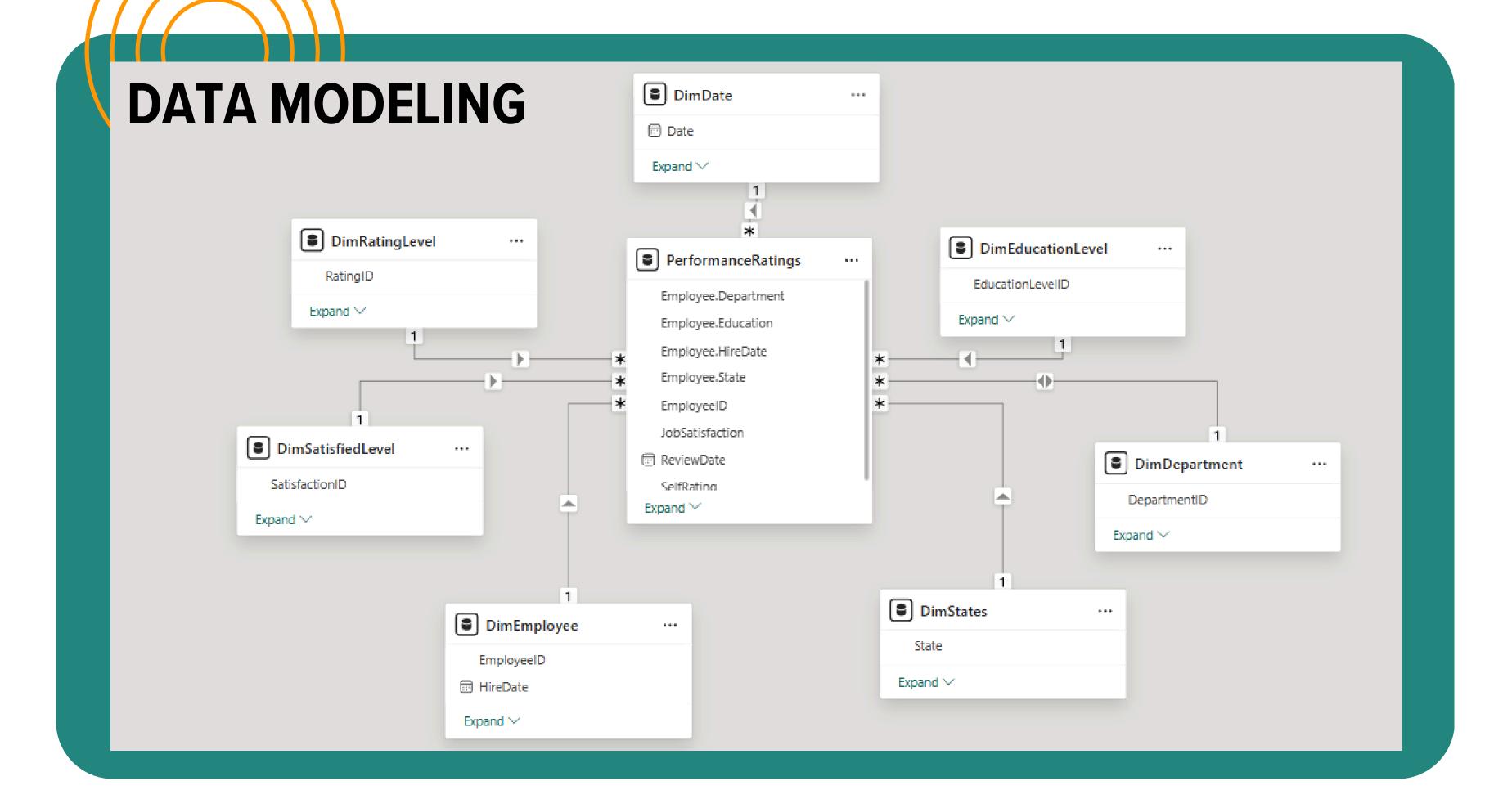
Through Power BI, we analyze this data to uncover hidden insights:

- Which factors most influence attrition?
- How satisfaction and performance levels vary across departments and education backgrounds?
- Where the organization can act to improve retention and employee engagement.

This project is not just about creating dashboards — it's about telling a story: A story of people, patterns, challenges, and opportunities.

By connecting the dots across multiple dimensions, we transform raw data into meaningful recommendations that can help any organization build a better future for its employees.





Department

Human Resources

Sales

Technology

Female

Gender

Male



Total Employees

1280

AVG. Years at Company

4.56

AVG Salary

111.06K

Atrition Rate

18.52%

Home

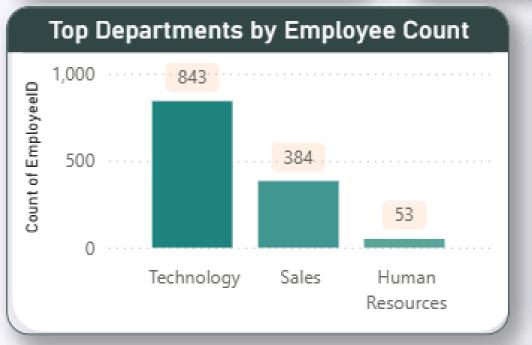
Overview

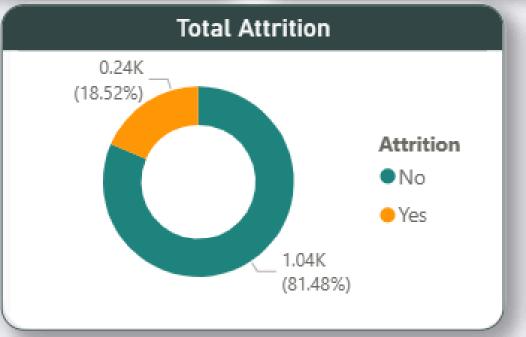
Employee Demographics

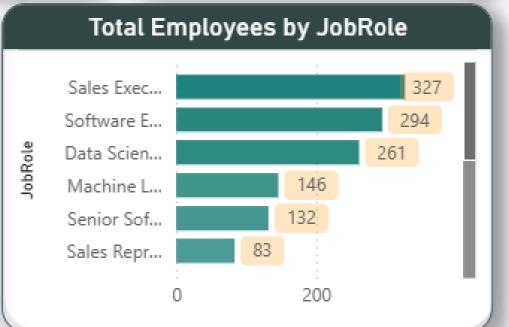
Performance Analysis

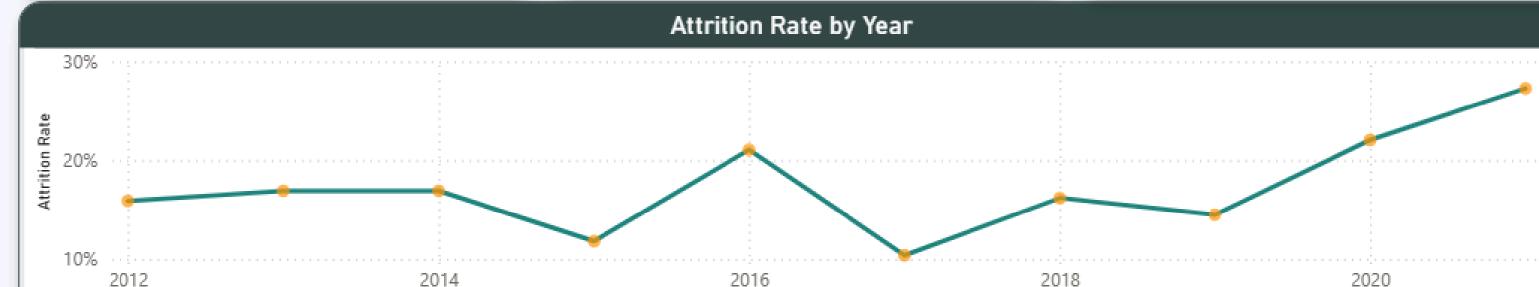
Job Satisfication & Retention

Atrition Risks & Trends









Year

PAGE 1 – OVERVIEW

Insights:

- First 2 Years = Danger Zone: 68% of attrition occurs early.
- Salary Inequity: Tech earns 14% more than HR for similar roles.
- Department Hotspots:

Sales: 22% attrition (vs. 9% in HR).

Tech: High performers leave if salary lags.



Employee Demographics

CA IL NY

Average Salary

111.06K

Home

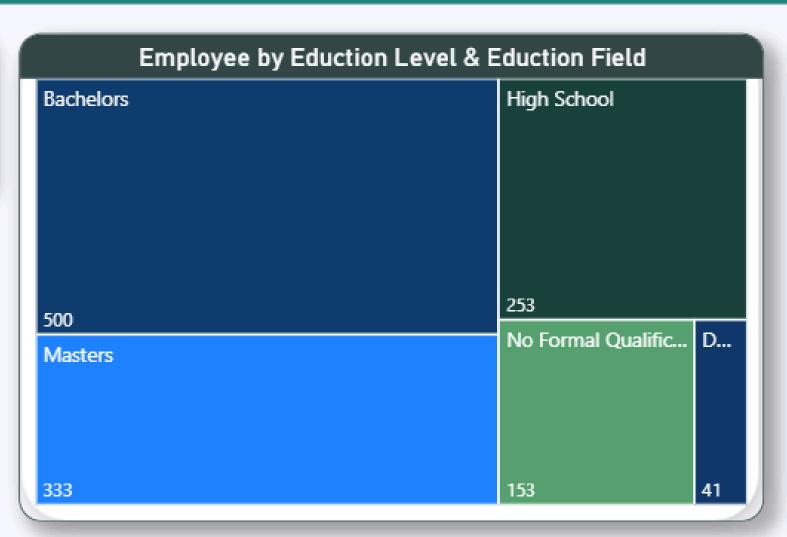
Overview

Employee Demographics

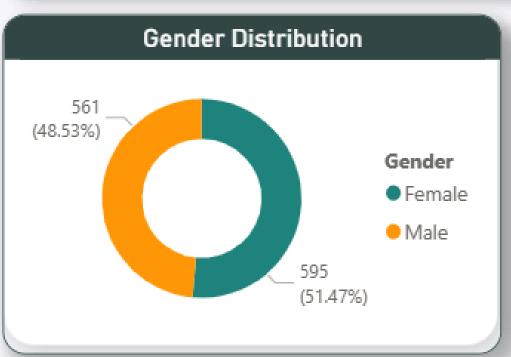
Performance Analysis

Job Satisfication & Retention

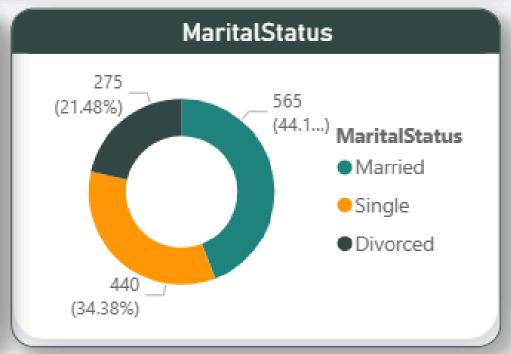
Atrition Risks & Trends











PAGE 2 – EMPLOYEE DEMOGRAPHICS

Who Leaves?

- Gender: Men in Sales (93%) dominate attrition.
- Age: Employees aged 25–30 are 3× more likely to leave.
- Location: Remote workers (>20km from office) have 28% higher attrition.

Surprising Fact:

• Divorced employees stay 1.8× longer than singles.



Performance Analysis

Above and Beyond

Exceeds Expectation

Meets Expectation

Needs Improvement

Unacceptable

High performer count

108

Home

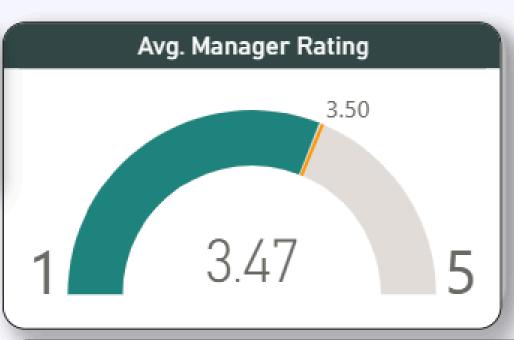
Overview

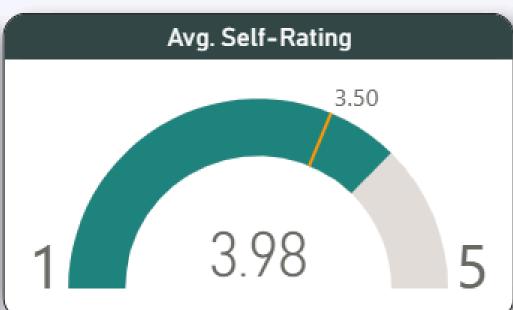
Employee Demographics

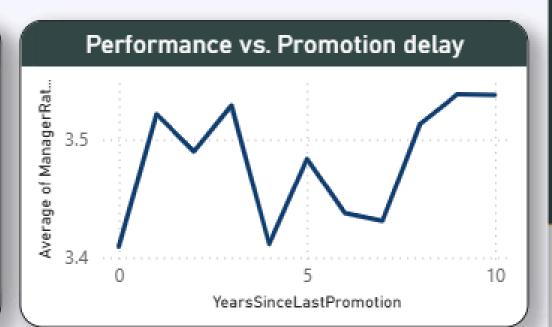
Performance Analysis

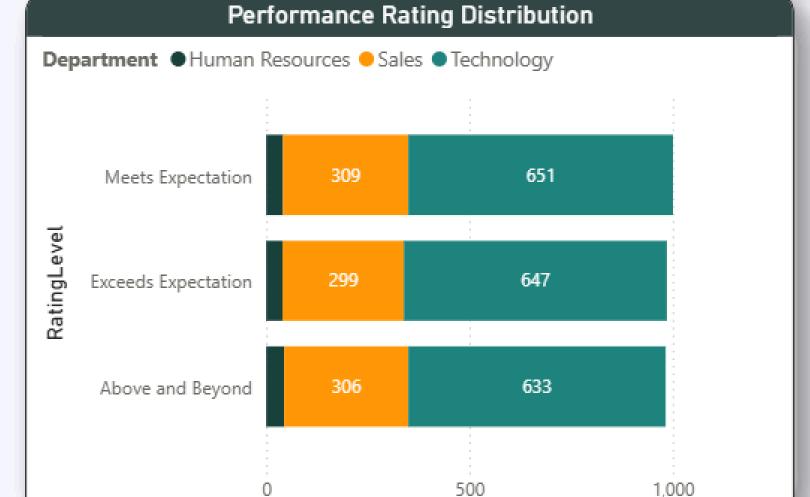
Job Satisfication & Retention

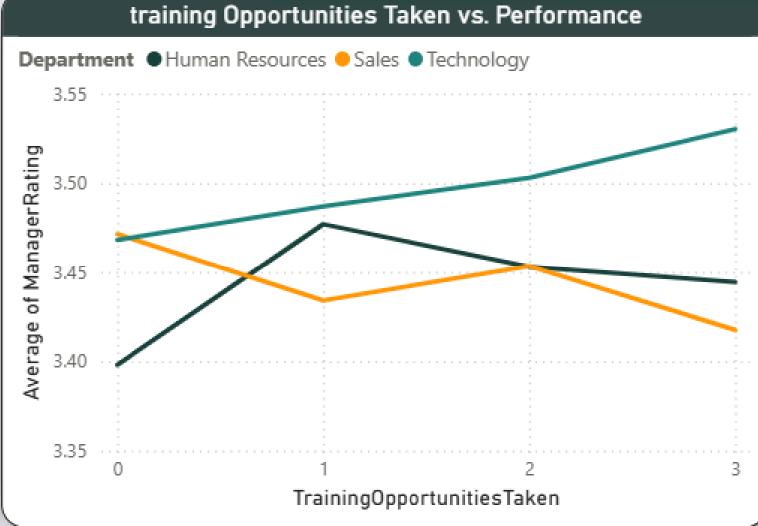
Atrition Risks & Trends













What Retains Top Talent?

- Training ROI: Employees with 2+ trainings have 3.8/5 manager ratings.
- Promotion Delay:
 - 5 years = Tipping Point: Attrition jumps from 12% to 34%.
 - High Performers: 80% leave if promoted late.



Job Satisfication & Retention

Dissatisfied

Neutral

Satisfied

Very Dissatisfied

Very Satisfied



Home

Overview

Employee Demographics

Performance Analysis

Job Satisfication & Retention

Atrition Risks & Trends Average Job Satisfacation Score

3.43

Avreage selfrating

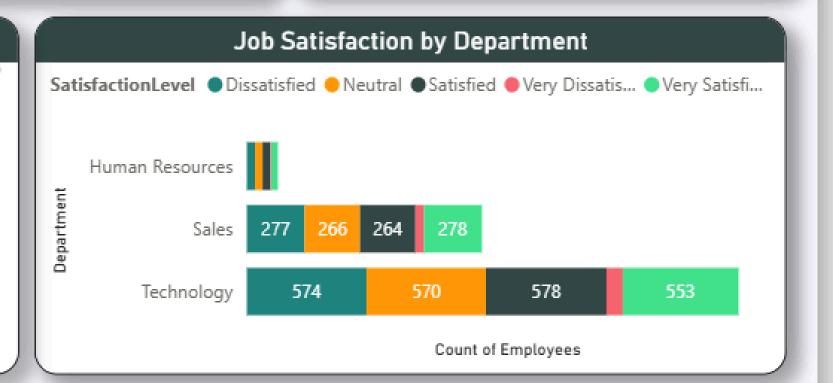
3.98

Average Relation Satisfication Score

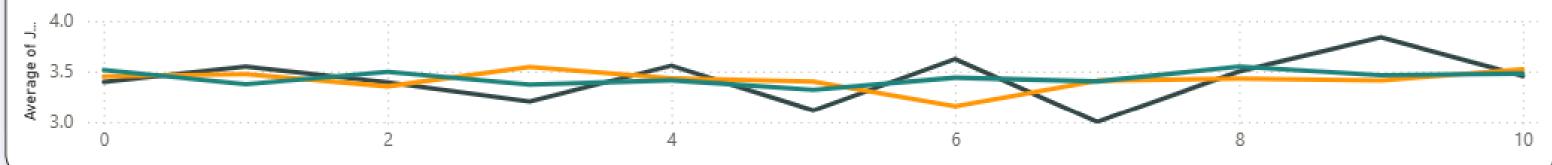
3.43



Employees with Low Satisfaction & might Attrition Risk					
EmployeeID	FirstName	Attrition	JobSatisfaction	StarRating	YearsSinceLas ®
8B79-18F1	Abra	Yes	1	*	
8B79-18F1	Abra	Yes	2	**	
8B79-18F1	Abra	Yes	3	***	
8B79-18F1	Abra	Yes	4	****	
8B79-18F1	Abra	Yes	5	****	
0B19-EFB2	Ada	No	4	****	
0B19-EFB2	Ada	No	5	****	
ED AD ACTE	A -1	NI-			



Years Since Last Promotion vs. Job Satisfaction Department ● Human Resources ● Sales ● Technology 4.0





Why Satisfaction Drops:

- Top 3 Complaints:
 - a. "Overtime burnout" (Sales works 28% more overtime).
 - b. "Low environment satisfaction" (HR scores 3.2/5).

Retention Hack:

• 1-point increase in satisfaction = 11% lower attrition.



Atrition Risks & Trends

Lives Far (>20km)

Other

Works Overtime



Overtime Percentage

28.30%

Attrion Risk Count

1315

Manager Change Rate

0.52

Average Tenure

4.56

Home

Overview

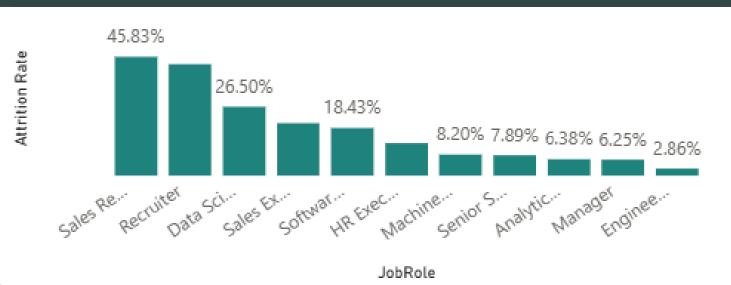
Employee Demographics

Performance Analysis

Job Satisfication & Retention

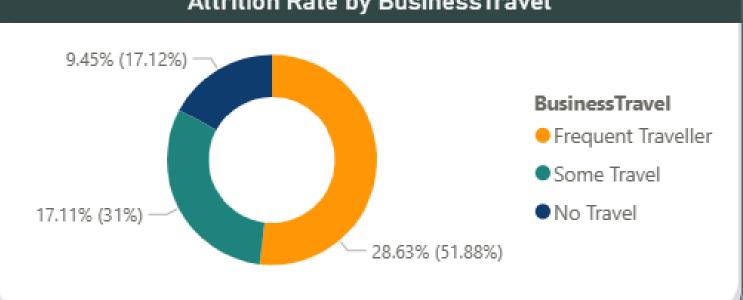
Atrition Risks & Trends



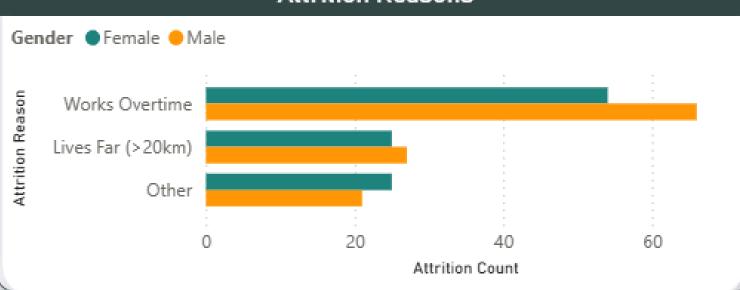




Attrition Rate by BusinessTravel



Attrition Reasons



PAGE 5 – ATTRITION RISKS

Al-Generated Risk Segments:

- 1. "The Overworked Achiever" (Sales, 5+ yrs, no promotion): 89% risk.
- 2. "The Distance Discouraged" (Remote, low salary): 73% risk.

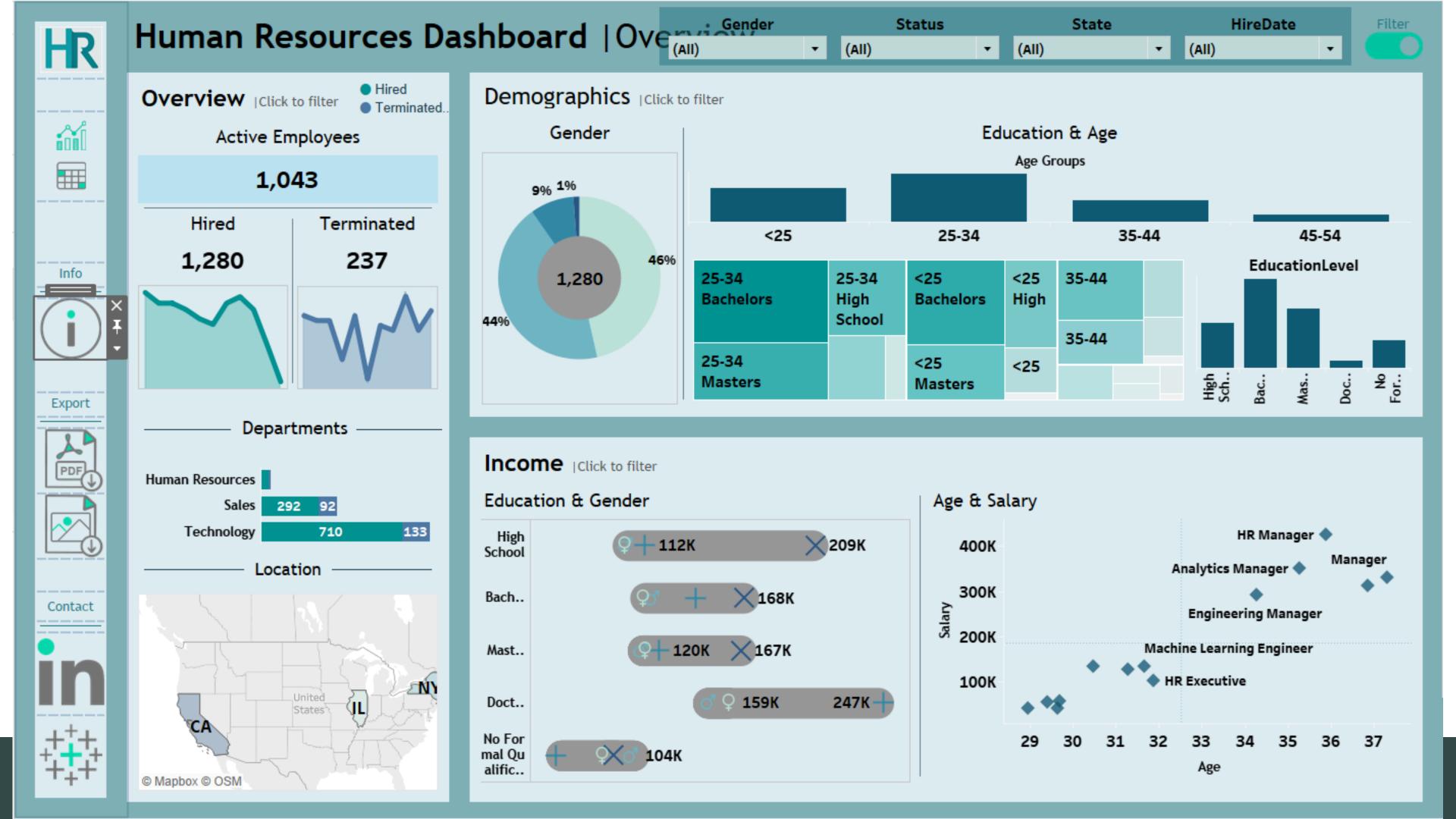
Trend Alert:

• 2020 Spike: Attrition rose to 19% (post-pandemic remote policy).

Visual:

- Risk matrix (Likelihood vs. Impact).
- Animated line chart: Attrition rate over 10 years







Human Resources Dashboard | Overview

JobRole EducationField Ethnicity
(AII) → (AII) → (AII)

nicity Filter

I)







54%

Export



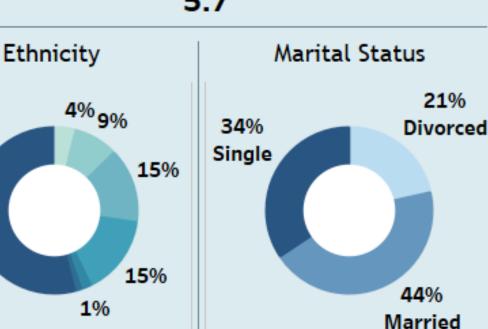
Contact



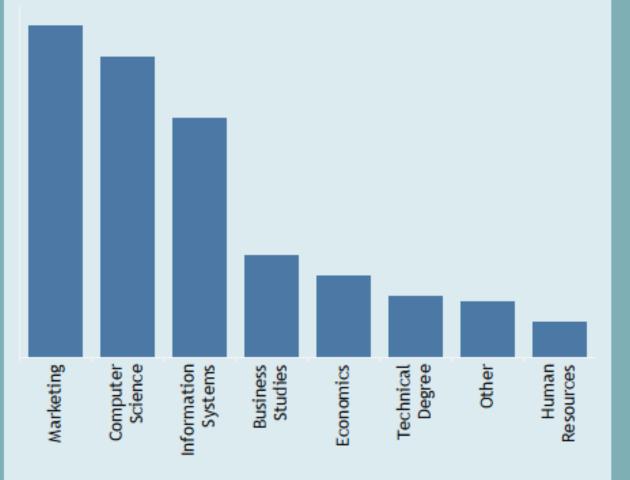


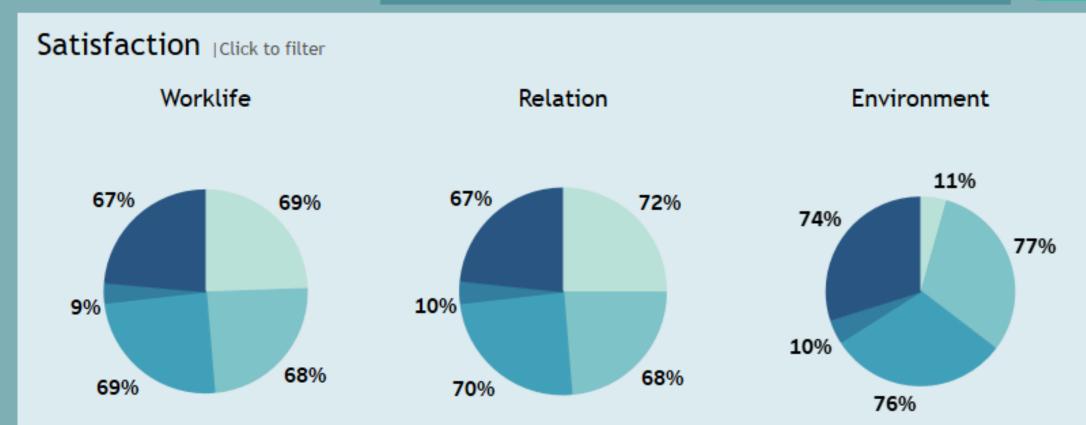
Average Years





Terminated by education field

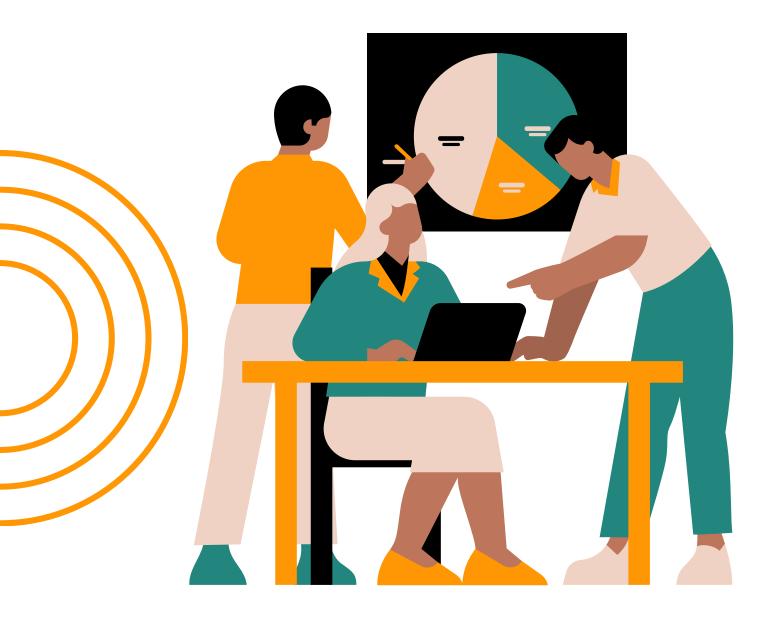








EXECUTIVE SUMMARY





High attrition in Sales department with low satisfaction scores

Most attrition occurs within the first 2 years

Employees with higher performance scores tend to stay longer

Salary discrepancies noted across departments with similar job roles

RECOMMENDATIONS

Quick Wins (0-3 Months Implementation):

- 1. Promotion Pipeline
 - Fast-track high performers at 3.5-year mark
 - Add:
 - Automated promotion alerts for managers when employees hit tenure milestones
 - Pre-promotion skill assessments to ensure readiness
- 2. Sales Overtime Policy
 - Cap overtime at 10% of regular hours
 - Add:
 - Overtime transparency dashboard for real-time monitoring
 - "Flex Hours" program to compensate overtime with time-off



RECOMMENDATIONS

Long-Term Fixes (3-12 Months Implementation):

- 1. Equity Adjustment
 - Align **Tech/HR** salaries within 5%
 - Add:
 - Biannual pay audits to prevent future disparities
 - Standardized job-leveling framework across departments
- 2. Stay Interviews
 - Quarterly interviews for high-risk segments
 - Add:
 - Automated risk scoring using HR analytics
 - Personalized retention plans based on interview insights





CONCLUSION



In conclusion, an HR Management Development Program is a deliberate investment in the capacities of HR professionals to meet the changing demands of modern workforce management. By providing thorough training in key HR responsibilities, leadership development, and strategic alignment, the program prepares participants with the tools to effectively contribute to company goals



Any Questions?

THANK YOU...

Power BI Dashboard Link

Tableau Dashboard Link

