Employee HR Data Analysis for Effective Workforce Management



OUTLINE

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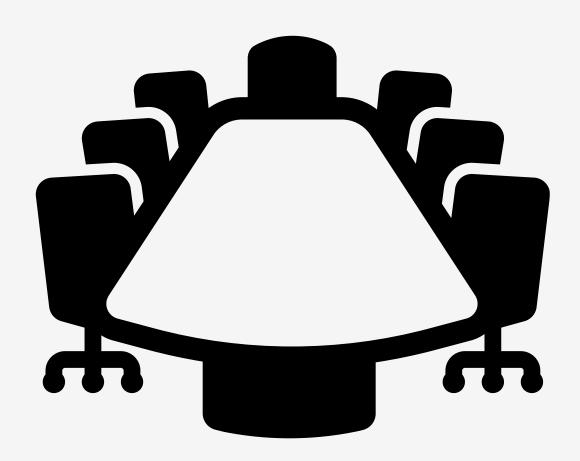
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EXECUTIVE SUMMARY

- Analyzed a dataset of 6,820 employee entries detailing demographics, salaries, performance ratings, and job roles.
- Key observations include:
 - Performance rating shows a weak correlation with salary.
 - Notable differences in average salaries among departments.
 - Significant gender and educational disparities in salary distribution.



INTRODUCTION

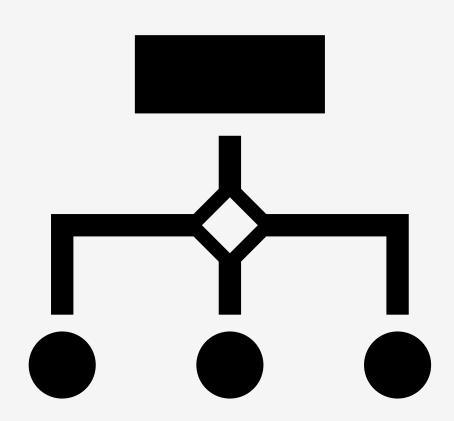
 Purpose: To evaluate the employee dataset to understand workforce demographics, performance ratings, and salary distributions.

 Importance: Insights from this analysis can inform HR policy, recruitment, and retention strategies.

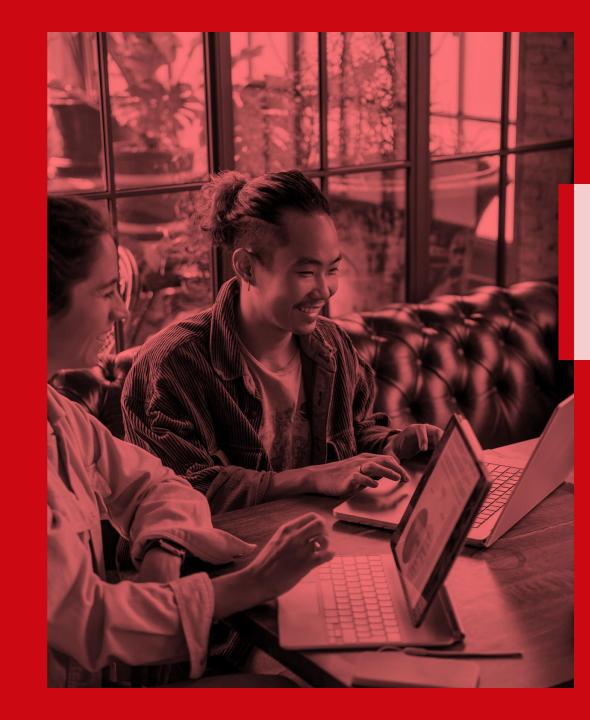


METHODOLOGY

- Simulated real-world HR dataset cleaned and standardized to ensure accuracy.
- Statistical analysis including correlation studies and salary comparisons by department and role.
- Visualization of hiring trends, employee demographics, and performance ratings.
- Comparative analysis of performance ratings across departments and educational levels.



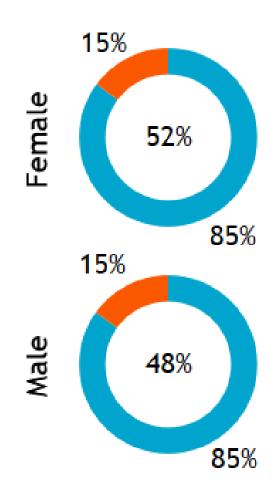
RESULTS



Employee Composition:

Active Employees: 5,801 (85.06%),
Terminated Employees: 1,019 (14.94%)

 Gender Distribution: Slightly higher female representation (3,049) than male (2,752)



Salary Insights:

Average Salaries by Department:

• IT: \$82,129

Finance: \$77,424

• Sales: \$75,730

Marketing: \$67288

Customer Service: \$65,667

• HR: \$65,492

Operations: \$64,538

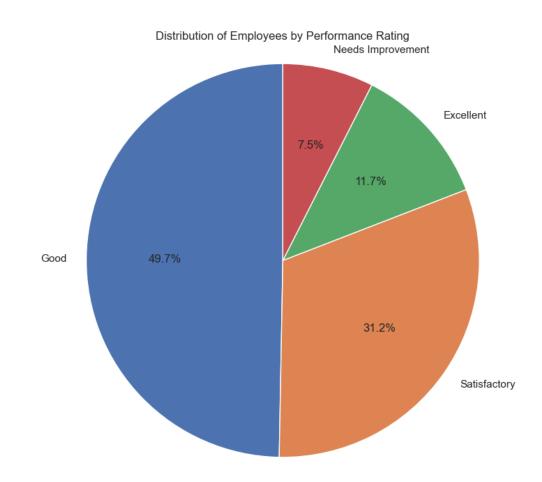
 Significant variances observed in salaries based on education level and gender.

Job Title	Salary
Finance Manager	\$126,316
IT Manager	\$121,784
Sales Manager	\$112,187
Marketing Manager	\$102,353
Operations Manager	\$94,942
Software Developer	\$92,848
HR Manager	\$89,146
Customer Service Manager	\$87,468
Sales Consultant	\$85,564
Financial Analyst	\$85,430
System Administrator	\$85,320
Sales Specialist	\$76,047
Accountant	\$74,203
Operations Analyst	\$73,324
SEO Specialist	\$72,369
Help Desk Technician	\$72,369
Sales Representative	\$67,787
Recruiter	\$67,728
Marketing Coordinator	\$67,283
HR Assistant	\$62,190
HR Coordinator	\$62,130
Logistics Coordinator	\$62,122
Accounts Payable Specialist	\$61,736
Content Creator	\$61,518
Customer Service Representative	\$61,447
Support Specialist	\$61,340
IT Support Specialist	\$61,251
Inventory Specialist	\$61,164

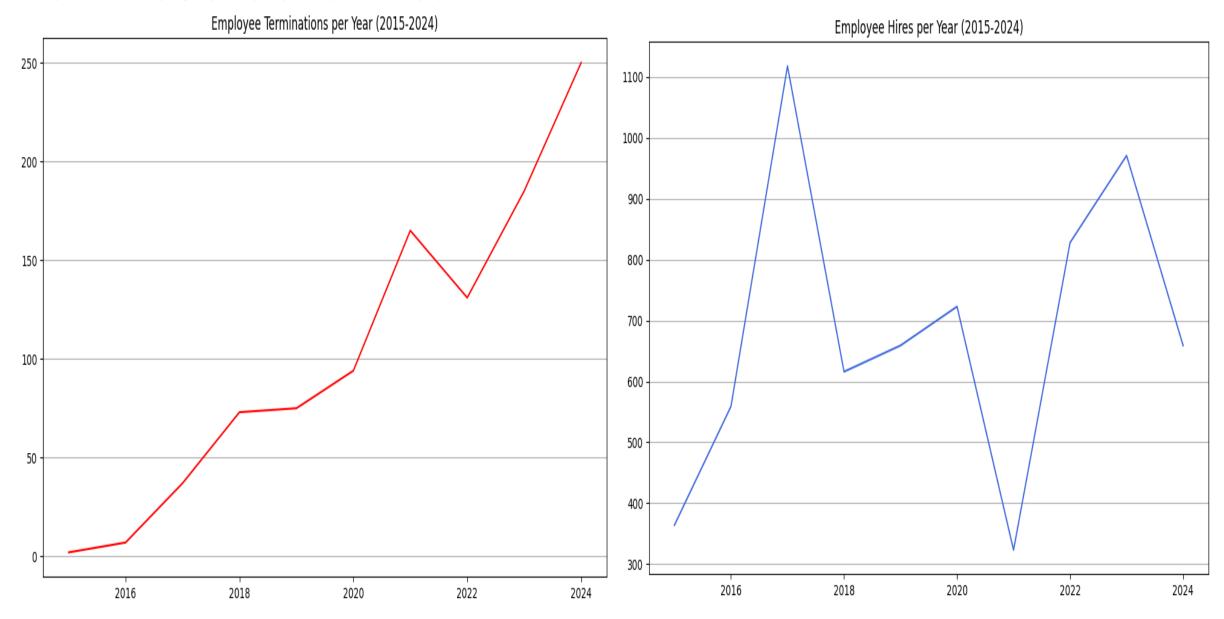
Performance Ratings:

Majority (approximately 50%) rated
'Good'; 7.5% 'Needs Improvement.'

 Performance ratings bridge no significant salary gaps across departments or gender.



Terminations and Hires

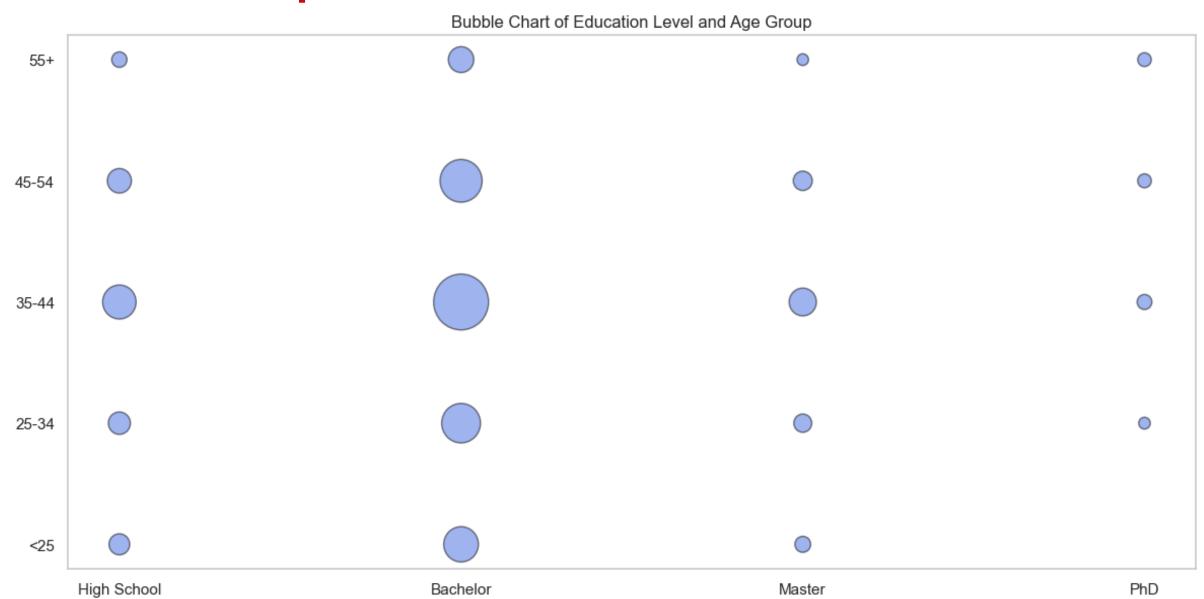


Terminations and Hires – Findings and Implications

 While termination rates are consistent with departmental sizes, an upward trend continues. A reassessment of retention strategies is crucial to mitigate risks associated with employee shrinkage.

 Peak hiring year: 2017; Low in 2021; Sideways trend in hiring. Management and allocation of resources must be reassessed to ensure future employment growth.

Educational Impact



Educational Impact – Findings and Implications

 Bachelor's holders dominate across age groups (especially 35-44, accounting for 23%) There is a need to filled skilled roles necessitating potential improvements in recruitment tactics

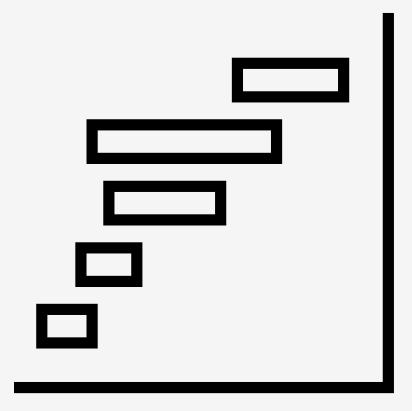
- Men tend to earn more with a high school diploma or bachelor's degree, while women earn more in the master's and doctoral levels.
- A significant salary difference based on gender highlights an underlying issue of pay equity

DASHBOARD

Human Resources Interactive

Tableau Dashboard

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Human Resources Dashboard | Summary







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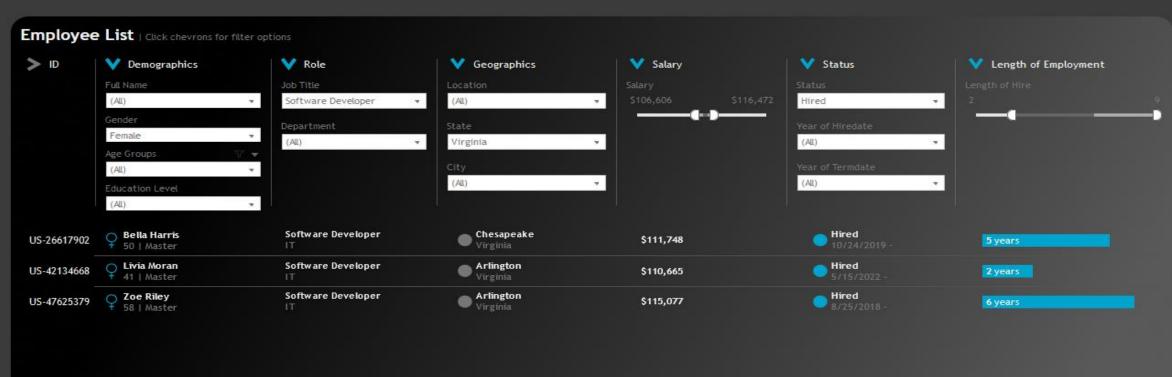
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Human Resources Dashboard | Details

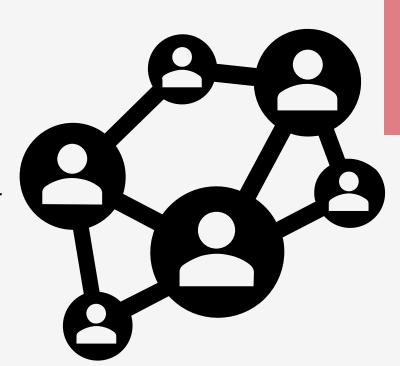


Conclusion

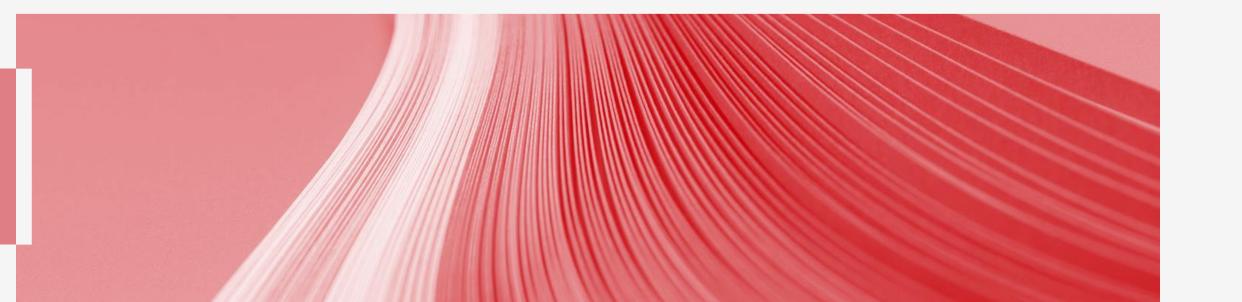


ACTIONALBLE INSIGHTS

- Companies seeking to attract top talent should immediately bridge gender pay disparities which will boost morale, retention, and corporate reputations
- Companies should create salary-based incentives tied to performance across departments, thereby enhancing overall employee performance ratings and workforce quality
- Organizations should emphasize developmental programs to foster higher qualifications among employees as educational attainment plays a crucial role in salary scales
- Organizations facing multiyear growth in termination rates need to conduct further investigation into workplace satisfaction and retention strategies



APPENDIX



Salary Distribution by Education Level and Gender

