



HR Data Analysis Report

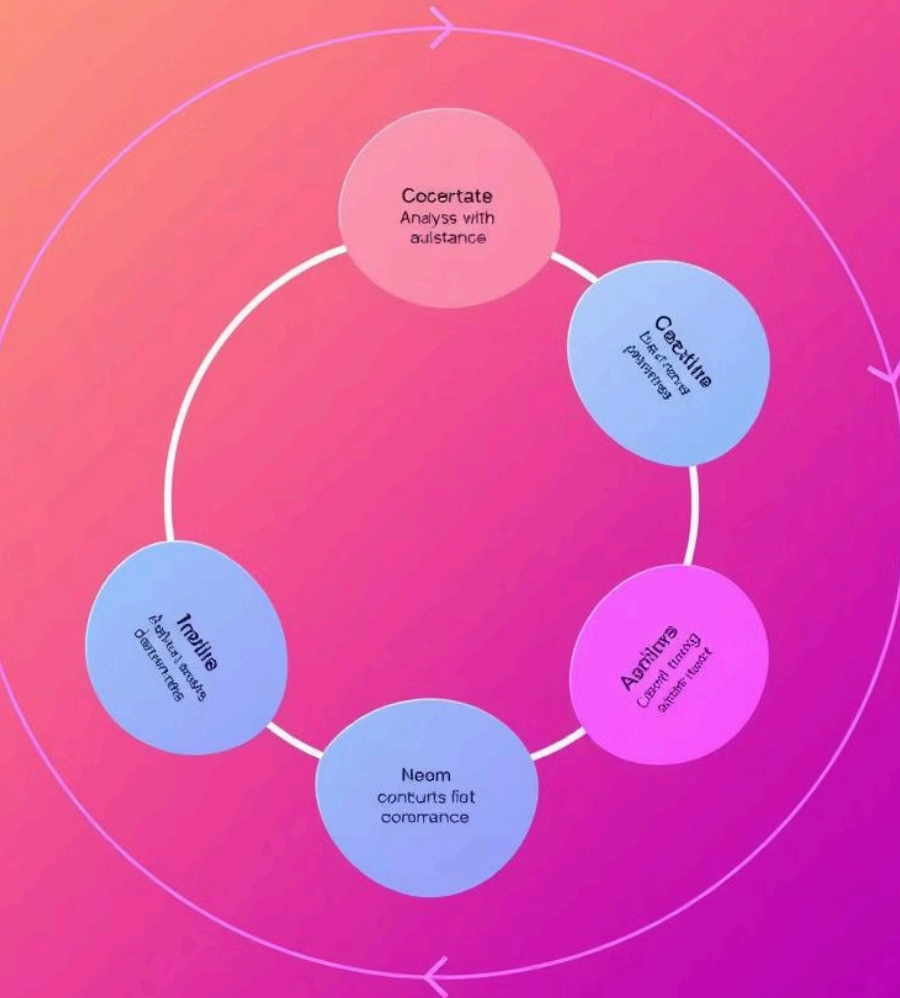
In-depth analysis of employee data to support HR decisions

Covers demographics, diversity, salaries, and retention trends

Follows Data Analysis Lifecycle from collection to recommendations

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Data Analysis Lifecycle Overview



1

Business Understanding

Define objectives and goals for the analysis

2

Data Understanding

Explore data sources and identify key metrics

3

Data Preparation

Clean and prepare data for analysis

4

Data Analysis

Perform descriptive and diagnostic analysis

Business Understanding

1 Workforce Diversity

Analyze employee demographics and diversity patterns

2 Compensation Trends

Examine salary distribution across departments and roles

3 Employee Retention

Identify turnover trends and high-risk areas

4 Geographic Distribution

Map employee locations and regional differences



Data Understanding

Data Sources

- Employee ID
- Personal Information
- Job Details
- Compensation
- Geographic Data

Key Metrics

- Diversity Metrics
- Compensation Metrics
- Retention Metrics

Data Preparation (Cleaning)

1

Correcting Data Types

Ensure proper formatting for numeric and text fields

2

Handling Missing Data

Infer missing values or flag incomplete records

3

Removing Duplicates

Eliminate duplicate employee entries for accuracy

4

Standardizing Formats

Maintain consistency in geographic and categorical data



Data Analysis Overview

Descriptive Analysis

Identify general trends in demographics and distribution

Diagnostic Analysis

Examine reasons behind key trends and patterns

Gender and Leadership

Analyze gender distribution in senior roles

Ethnic Disparity

Investigate representation of minorities in leadership

Data Visualization Techniques



Gender and Ethnicity

Pie charts for gender distribution



Salary Distribution

Histograms for salary ranges



Hiring Trends

Line charts for hiring patterns



Geographic Distribution

Scatter maps for employee locations

Key Insights

Gender Balance	Fairly balanced, women in senior roles
Ethnic Diversity	Underrepresentation of Black employees in leadership
Salary Inequity	Geographic discrepancies, especially Manaus vs Seattle
Turnover Rates	Higher in Finance and Operations departments



Recommendations

- 1 Diversity Programs**
Implement mentorship and diverse recruitment initiatives
- 2 Salary Equity**
Conduct comprehensive audit to address geographic disparities
- 3 Retention Strategies**
Develop targeted programs for high-turnover departments
- 4 Global Expansion**
Diversify talent pool in underrepresented regions





Conclusion

Comprehensive Analysis

Insights into workforce demographics, salaries, and retention

Actionable Recommendations

Targeted strategies to improve diversity and performance

Future Impact

Potential for more equitable and high-performing organization