

### **Company Overview**

This report provides strategic insights into workforce dynamics, including attrition, diversity, employee engagement, training effectiveness, recruitment pipeline, and predictive analytics. It draws from integrated HR datasets and interactive dashboards developed in Power BI and Streamlit.

#### **EXECUTIVE SUMMARY**

Metric	<u>Value</u>
<b>Total Employees</b>	300
<b>Active Employees</b>	255
<b>Attrition Rate</b>	15.00%
<b>Average Tenure</b>	<b>5.18 years</b>
<b>Average Engagement Score</b>	3.18 / 5.0
<b>Average Performance Score</b>	2.98 / 5.0
<b>Total Job Applications</b>	1,828
<b>Open Positions</b>	100
<b>Filled Positions</b>	<b>73</b>

#### **Engagement Report**

<b>Department</b>	<u>Avg E</u>	<u>ingagement</u>	t Score
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HR	3.37
Engineering	3.24
Sales	3.21
Marketing	3.17
Finance	3.14
<b>Operations</b>	3.00

-Overall Average: 3.18

-Insight: HR and Engineering lead in engagement; Operations lags and may require leadership/managerial

#### **Attrition Analysis**

**Attrition Rate**: 15%

Active Employees: 255 out of 300

Key Insights:

-Most attrition is voluntary.

-Employees with < 2 years tenure are more likely to leave.

-Engineering and Operations departments report higher attrition levels.

### **Predictive Analytics**

.Average Performance Score: 2.98

.Attrition Risk Categories:

-High Risk: ~5% (based on predictive model threshold > 0.7

-Medium Risk: ~25%

-Low Risk: ~70%

, Visuals: Distribution chart of predicted attrition risk and

engagement-performance correlation.

### **Diversity Insughts**

**By Department** 

<b>Department</b>	Headcount		
Engineering	72		
Operations	70		
Sales	53		
Marketing	42		
HR	41		
Finance	22		

#### **By Location**

<b>Location</b>	Count
NYC	114
Chicago	98
Remote	59
Austin	29

. **Gender and Ethnicity breakdowns** are visualized through bar and pie charts to promote inclusivity and equity tracking.

#### **Training Effectiveness**

Metric Val	ue	
Total Trainings Conducted	1301	
Avg Training Hours	4.26	
Avg Skill Improvement Score	19.13	
Avg Pre/Post-Test Improvement	19.13	
Application on the Job	53.27	

#### **Top 5 Courses:**

Course	Completed
1.Conflict Resolution	102
2.Sales Negotiation	100
3.Financial Analysis	99
<b>4.Effective Presentations</b>	98
<b>5.Python for Beginners</b>	98

#### **Recruitment Insights**

MetricValueApplications1,828Open Positions100Filled Positions73Average Time to Fill[X] days

**.Application Stages**: Tracked by stage (Applied, Screened, Interviewed, Hired)

**Sources**: Job boards, referrals, and direct applications

#### **User Directory (Admin View)**

Provides a secure, downloadable listing of all current employees, roles, departments, and status for internal audit or compliance

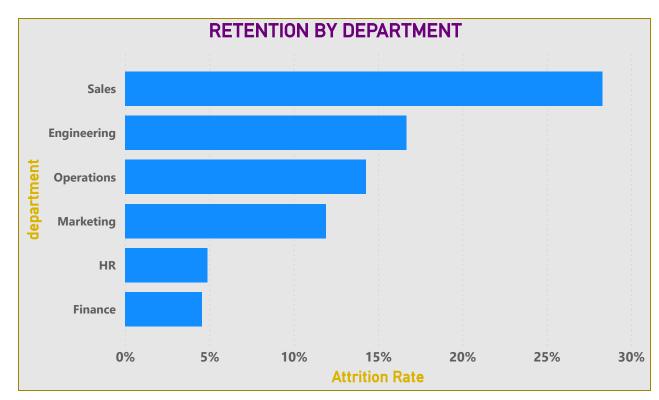
#### **Deployment & Access**

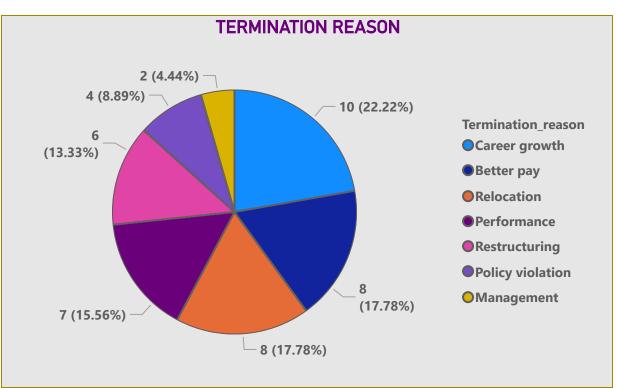
**GitHub Repository:** https://github.com/MillicentPatrick/HR-Analytics

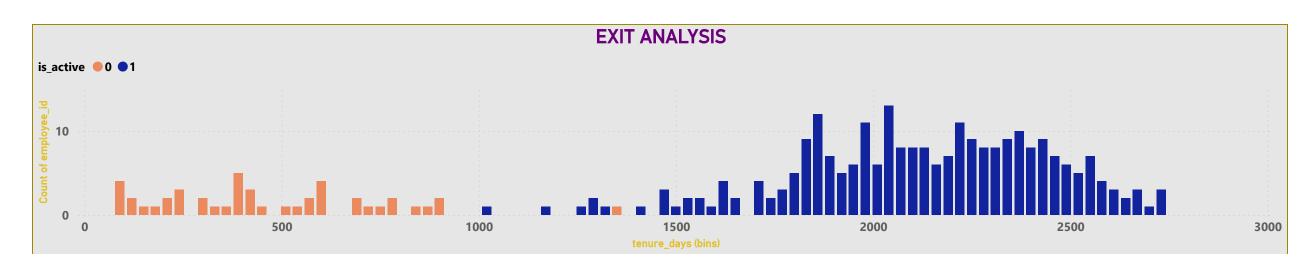
#### Recommendations

- 1. Focus on Employee Retention: Target departments with high turnover.
- 2. Enhance Engagement: Prioritize departments with sub-3 engagement scores.
- 3. Review Recruitment Sources: Optimize channels with low conversion.
- 4. Monitor High-Risk Employees: Intervene early via engagement and performance trends.
- 5. Continue Diversity Tracking: Expand demographic dimensions for equity analysis.

# ATTRITTION DASHBOARD

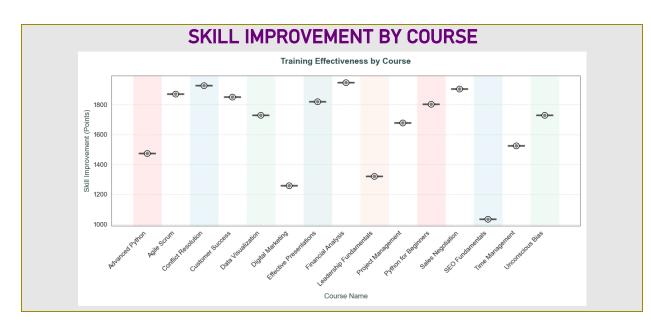


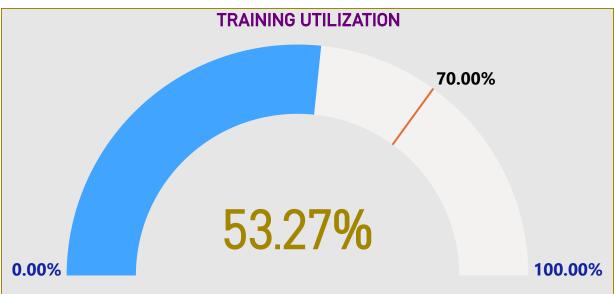


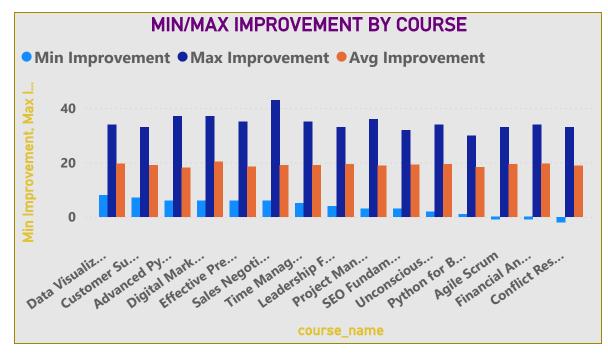


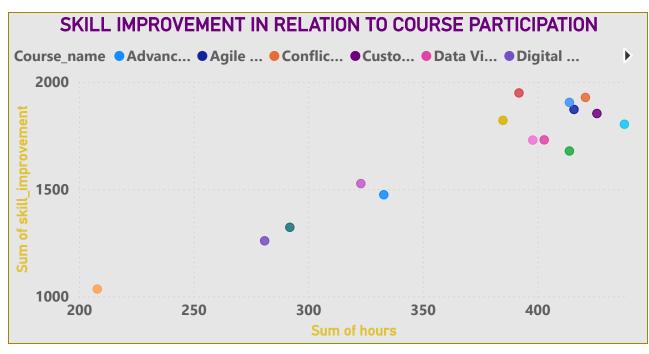


### TRAINING EFFECTIVENESS



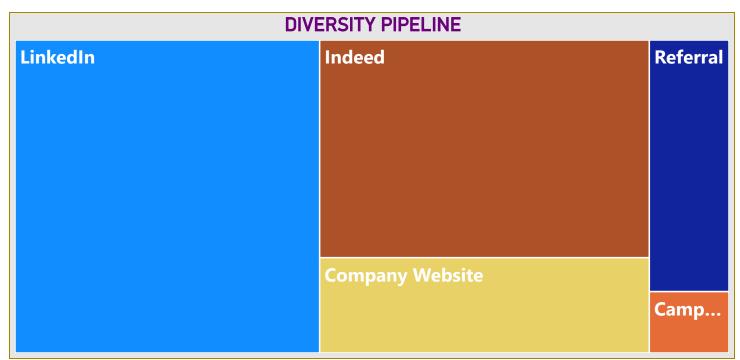




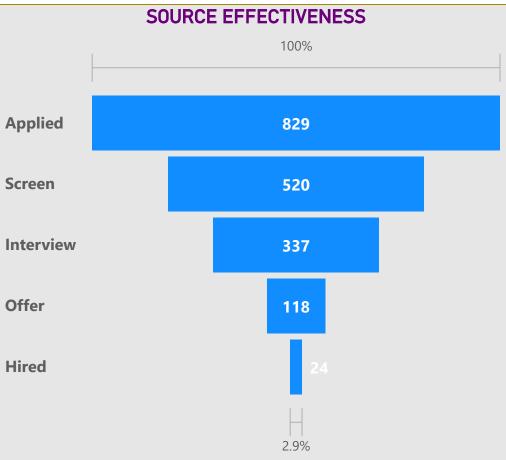


# RECRUITMENT METRICS



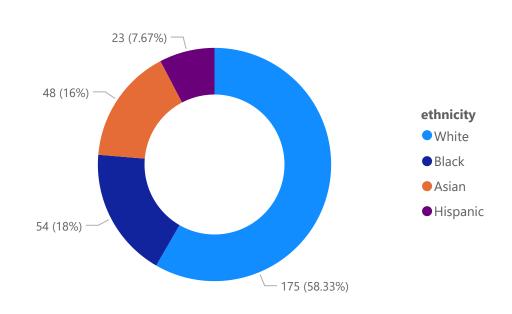




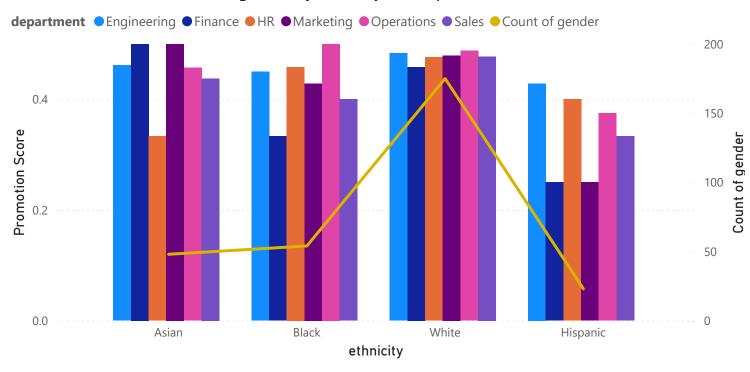


# **DIVERSITY & INCLUSION**

#### Count of employee\_id by ethnicity



#### Promotion Score and Count of gender by ethnicity and department



gender	Engineering	Finance	HR	Marketing	Operations	Sales	Total
Female	123082.79	91961.40	87887.56	128551.67	79345.03	145560.50	109052.32
Male	119585.00	102127.20	83504.29	128813.27	83979.59	120091.55	107949.78
Other	121377.00	73948.00	69250.50	203004.00			104593.57
Total	120995.03	94944.64	85481.71	130486.29	82059.56	131624.66	108352.91