



Data-Driven HCM

Leveraging Analytics for Strategic Decision-Making



Table of Contents

01

Recruitment & Onboarding	02
Hiring Status	02
Candidate Source Reports	04
Hiring Efficiency Metrics	05
Diversity Report	06
Onboarding Status	07

05

Performance Management	16
Performance Appraisal Status	16
Performance Assessment of Your Workforce	18

02

Time and Attendance	08
Attendance Status	08
Timesheet Reports	09
Attendance Pattern	09

06

Exit Management	19
------------------------	-----------

03

Payroll Management	10
Payroll Breakdown Report	10
Deduction Report	12
Tax Declaration Report	13

07

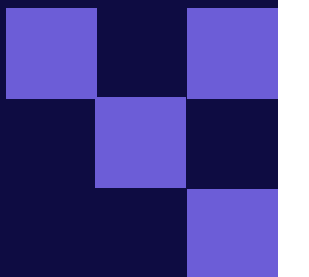
Traditional vs Data-Driven HR	21
--------------------------------------	-----------

04

Expense Management	14
Expense Reports	14

08

What's Next?	23
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Introduction

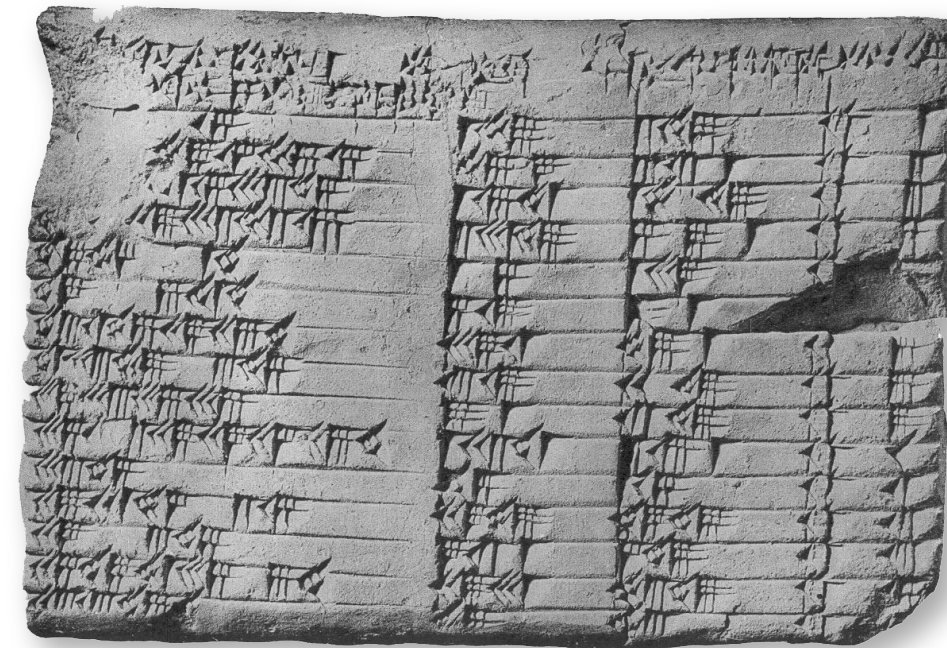
The use of data for informed decision-making can be traced back to ancient civilizations, where rudimentary forms of record-keeping were used to track things like agricultural yields, trade transactions, and census data.

For example, ancient Mesopotamians used clay tablets to record financial transactions, while the ancient Egyptians kept detailed records of their agricultural activities.

More recently, the term "business intelligence" gained popularity in the 1990s, referring to data analysis tools and techniques to extract insights from business data. The explosion of digital data in the 21st century, coupled with advancements in data storage, processing, and analytics technologies, has fueled the rise of big data and analytics. Organizations now have access to vast amounts of structured and unstructured data from sources like social media, IoT devices, and transactional systems.

Currently, every facet of a business produces numerous data points that can help with highly accurate and informed decision-making. The Human Resources department is no exception. If you are using an HRMS platform, chances are that you already have a massive repository of untapped data, waiting for you to be leveraged for business success.

This whitepaper aims to shed light on various data points you can collect during the entire employee lifecycle: Recruitment, Onboarding, Time & Attendance, Expense Management, Payroll, Performance Management, and Exit. We will also discuss how you can analyze this data and drive deep insights for improved workforce planning and enhanced organizational performance. Let us dive into each stage of the employee lifecycle, one by one:



A Babylonian clay tablet with numbers

01 Recruitment & Onboarding

Data creation starts as soon as you publish a job on a portal. The ATS-integrated HRMS portal captures data points such as the number of candidates applying to an opening, their performance at each hiring stage, feedback from the interviewers, and so on. The data-driven reports from your ATS help you improve your hiring and onboarding efficiency.

■ Hiring Status

Most ATS dashboards will show you the real-time status of your hiring. For example, the number of openings, the number of candidates in the pipeline, how many people are already hired, and so on. You can also see your pipeline in the funnel format, showing the number of candidates at each stage. Such reports help you predict whether your candidate pipeline is sufficiently equipped to fill the open positions on time.



Sample Hiring Report Dashboard

118



Last Applicants

+20% this week

510



Job Openings

+8% this week

24



Total Hires

-11% this week

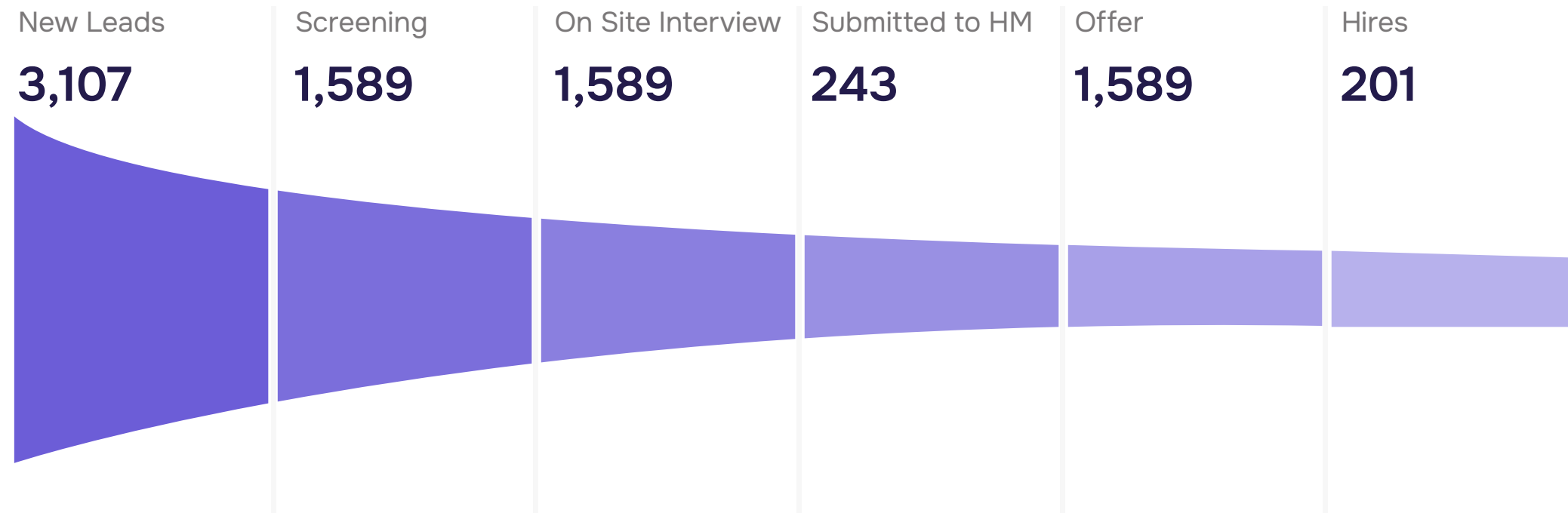
56



Still In Progress

-3% this week

Funnel Analytics







Candidate Source Reports

These reports help you measure the effectiveness of each hiring channel. They can show you the breakup of candidates applying from different sources like LinkedIn, Naukri, your website's career page, your vendor's site, and so on.

You can see further analytics like how many candidates viewed your job listing, what percentage of the viewers applied, what is the candidate qualification rate for each source, etc.





This information is helpful in finding out the best sourcing pools for different job profiles and deploying your talent acquisition resources accordingly.

Sample Candidate Source Report Dashboard

 Total Jobs 02	 Total Views 245	 Total Applications 32	 Total Conversion 13.1%
Source	Views	Application	Conversion
Website Career Page	40	05	12.5%
Third Party Job Portals	80	20	25.0%
Vendor	25	02	8.0%
Banner Ads	100	05	5.0%

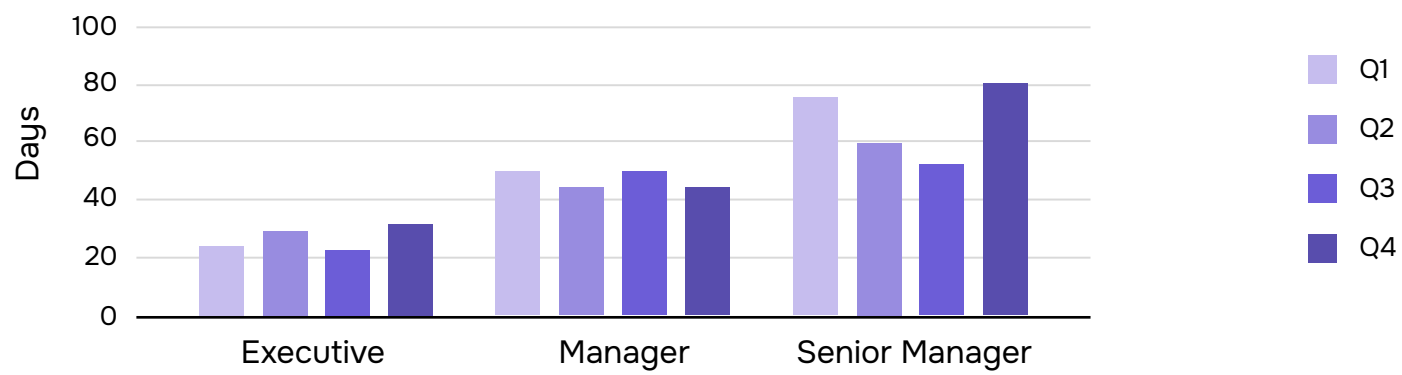
Hiring Efficiency Metrics

Metrics like time-to-hire, cost-to-hire, offer acceptance rate, offer decline rate, candidate experience, etc. tell you about your hiring process's efficiency. Tracking them continuously will uncover many areas of improvement to build a strong and highly optimized system for recruitment.

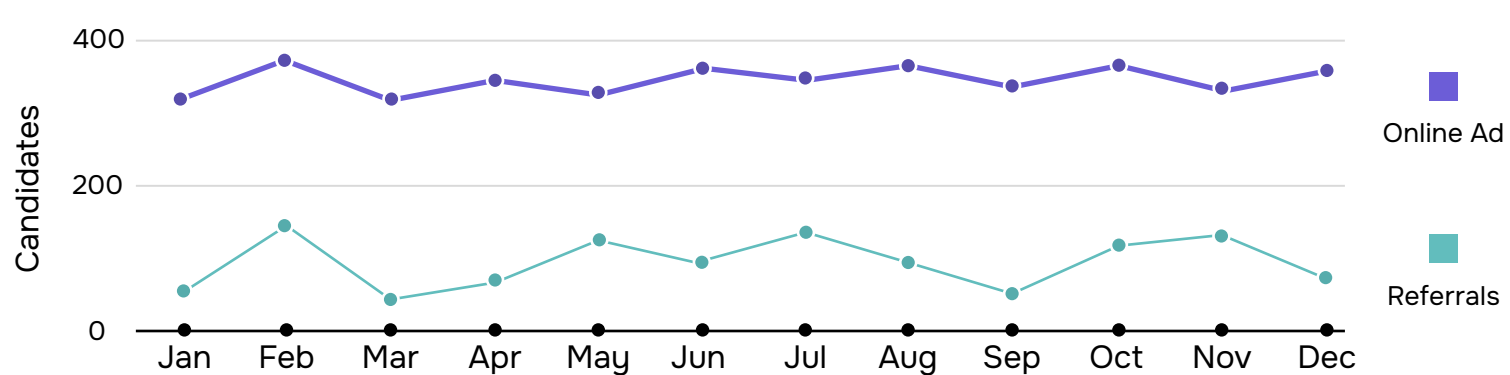
Requisitions 40 ↑ +15% in Q3		Applications 384 ↑ +3% in Q3	
Offers 40 ↑ +7% in Q3		New Hires 36 ↑ +20% in Q3	

Sample Hiring Efficiency Report Dashboard

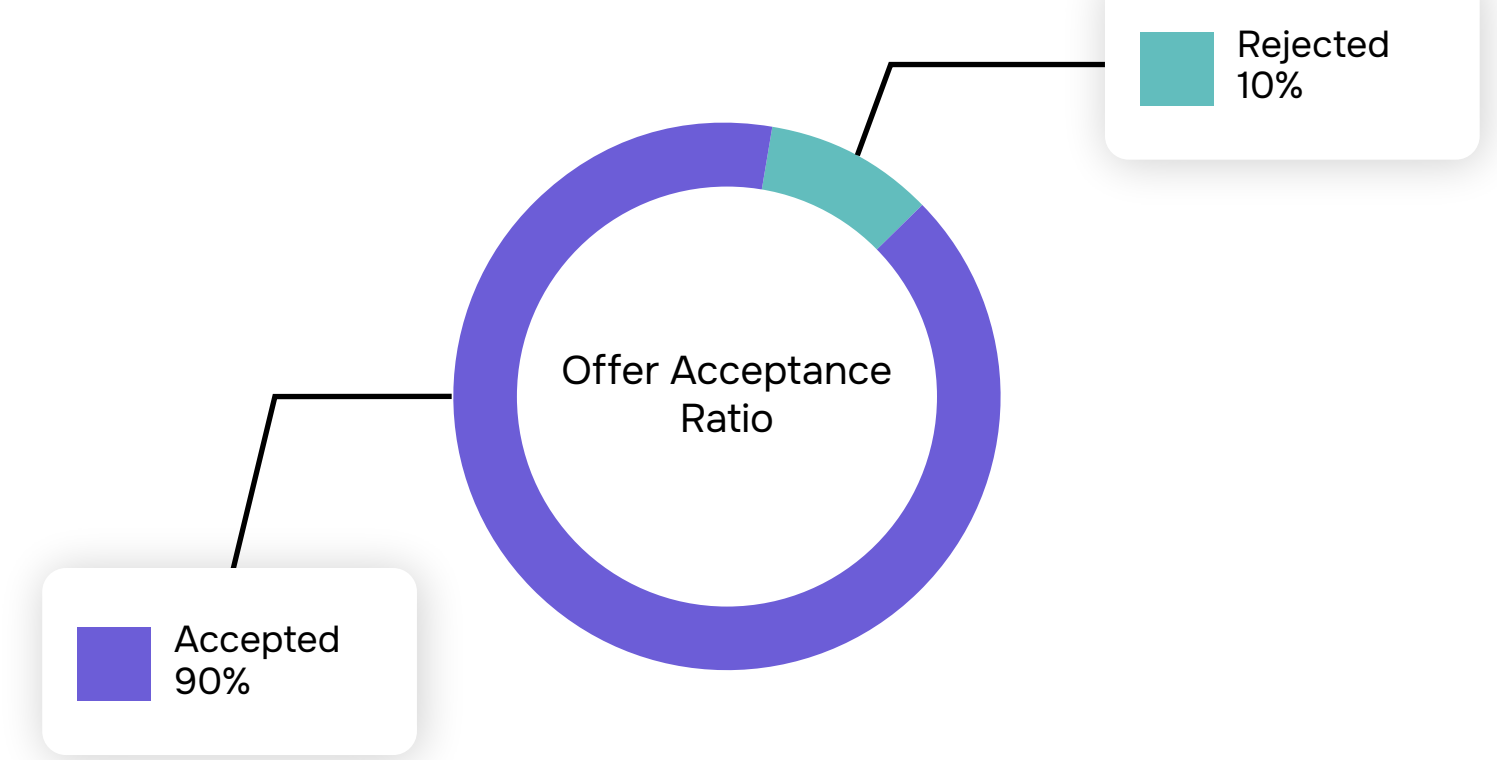
Time to Fill



Lead Generation



Offer Acceptance



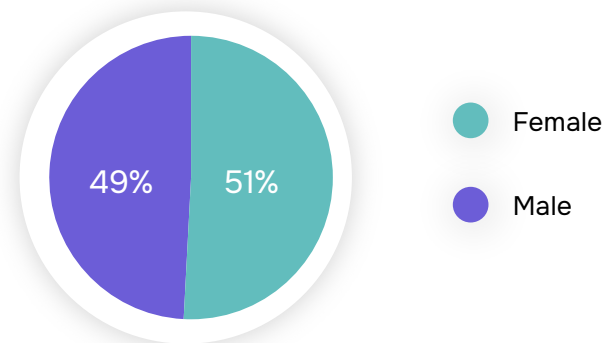
Diversity Report

Many organizations are increasingly prioritizing the cultivation of diverse workforces. A diversity report helps you in this pursuit. This report serves as a comprehensive snapshot of the demographic makeup of job applicants and hires, providing critical insights into an organization's diversity and inclusion efforts.

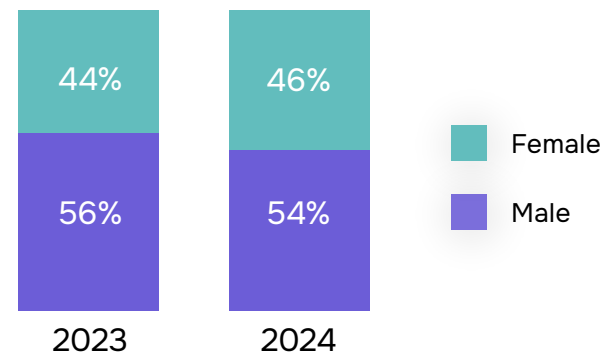
For instance, it may highlight the ratio of male to female applicants within the recruitment pipeline, shedding light on gender representation throughout the hiring process. Such data-driven analyses enable organizations to ensure fair and equitable practices for a more diverse workforce.

Sample Diversity Report Dashboard

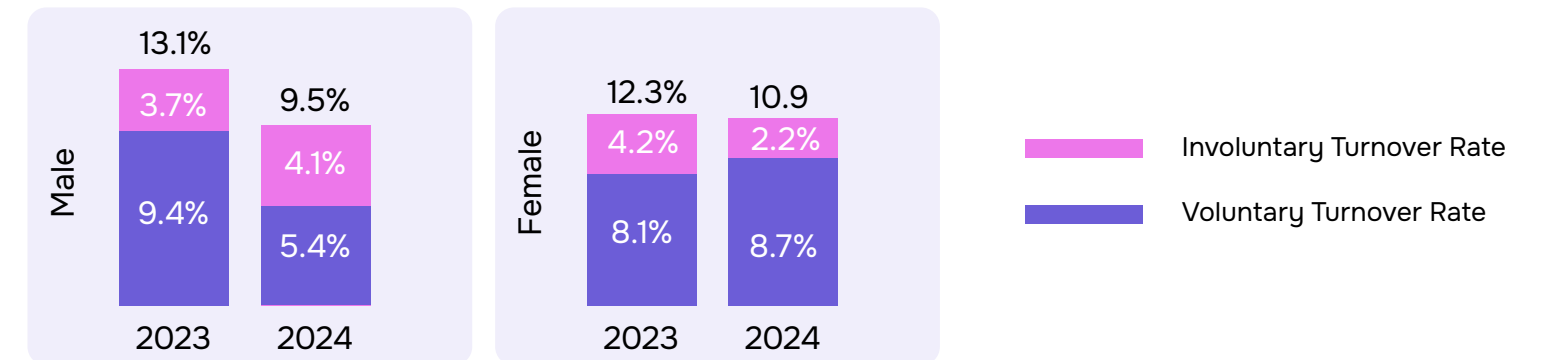
Gender Distribution



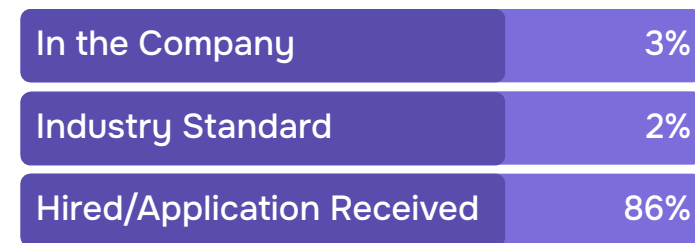
Hired By Gender



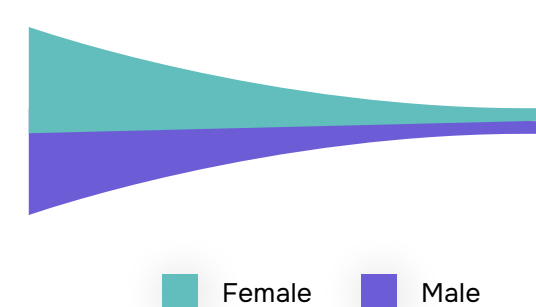
Turnover by Gender



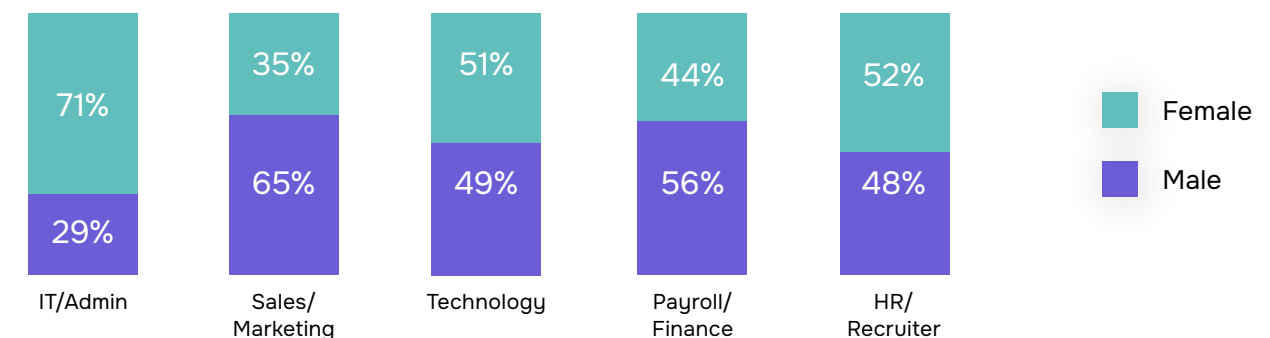
Person with Disabilities



Recruitment Breakdown by Gender



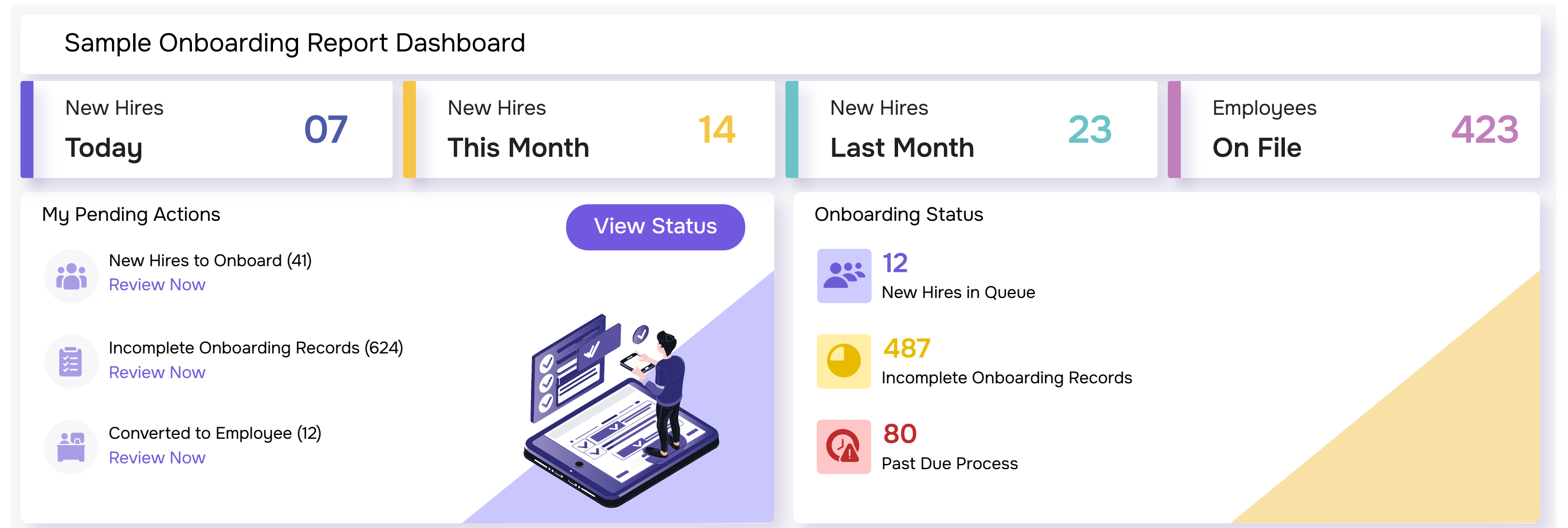
Breakdown by Department



Onboarding Status

An onboarding dashboard provides an overview of the onboarding progress for all employees, segmented stage by stage. From initial documentation to training completion, every step of the onboarding journey can be tracked and displayed visually for efficient management and seamless integration for new hires.

This data is collected from various sources within the HRMS, including employee profiles, task management systems, and feedback mechanisms, consolidating information into a centralized hub for easy monitoring and analysis by HR professionals.



02 Time and Attendance

Modern attendance management systems register employee attendance with biometric devices such as fingerprints and facial scanners. It enables organizations to accurately record the in-time and out-time along with check-outs and ins during the work day. These data points help calculate multiple attendance metrics.

Attendance Status

The real-time status of the number of employees present in the office. Most HRMS platforms also display the number of employees absent, or on leave. You can also find the breakdown of leave types on some platforms. For example, how many employees are on paid leave, unpaid leave, or comp-off?

Real-time attendance status is useful for industries where workforce allocation is very dynamic. For instance, manufacturing companies can decide production plans for the day based on how many workers are available on site.



Timesheet Reports

An attendance tracking system also automates timesheet creation. The data in the timesheets builds reports to track work on multiple tasks. You can see a visual representation of who worked on which tasks and for how much time. Such reports are very useful for a lot of purposes, such as resource allocation, project budgeting, project forecasting, workload forecasting, identifying bottlenecks, and even performance measurement.

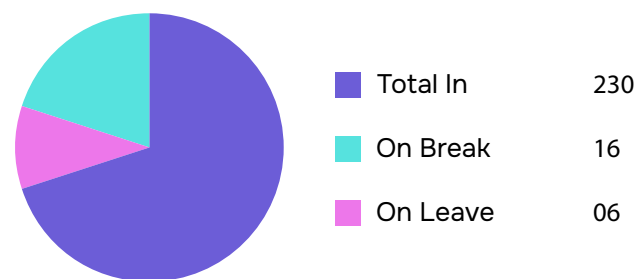
Timesheet-related reports are very helpful when working with contractual employees or freelancers, or in cases where you calculate payments based on hours worked.

Attendance Pattern

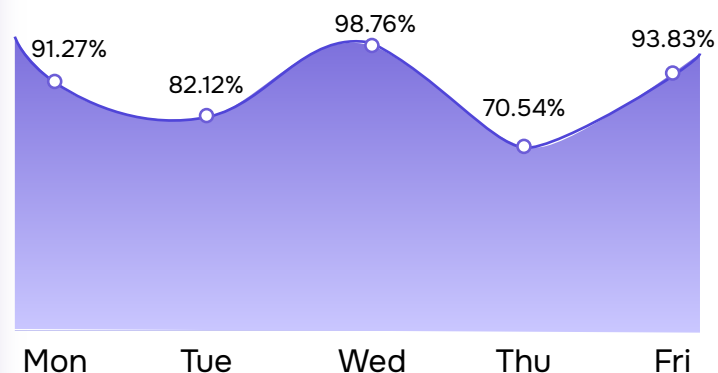
A monthly graph of employee attendance shows employee behavior on various days of the week. If you can compare the graphs of various months, it'll further strengthen your analysis. The graphs can be plotted for various data points, such as total number of employees present, total late log-ins, total late log-outs, hours worked, etc. Understanding such patterns helps you draft time and leave policies that can improve your organization's performance.

Sample Time and Attendance Report Dashboard

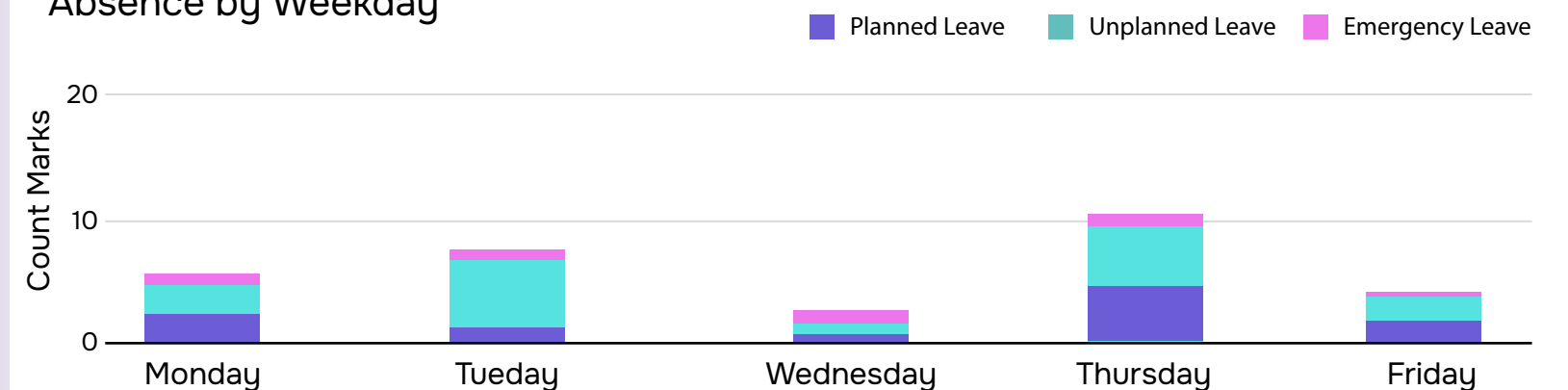
Attendance Current Day



Attendance by Weekday



Absence by Weekday



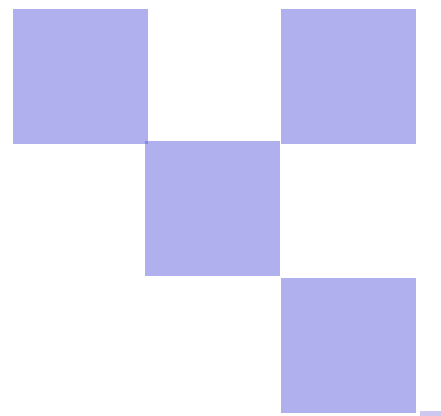
03 Payroll Management

Monthly salary disbursement generates many data points that can be visually represented for insightful patterns and trends. The various components of your employees' remunerations act as the categories of your salary expenses and help build analytical reports.

■ Payroll Breakdown Report

The Payroll breakdown provides a comprehensive overview of the total costs associated with payroll for a specific period, typically a pay period, month, quarter, or year. It is used by businesses to track and analyze payroll expenses. Key components of a payroll cost summary may include.

- Net Payments to your employees - The actual amount you paid your employees
- Taxes paid to the government
- Pre tax deductions like NPS, VPF, ESI
- Deductions from employees



Sample Payroll Breakdown Report Dashboard

Report



Payroll Summary

Monthly Payroll Cost

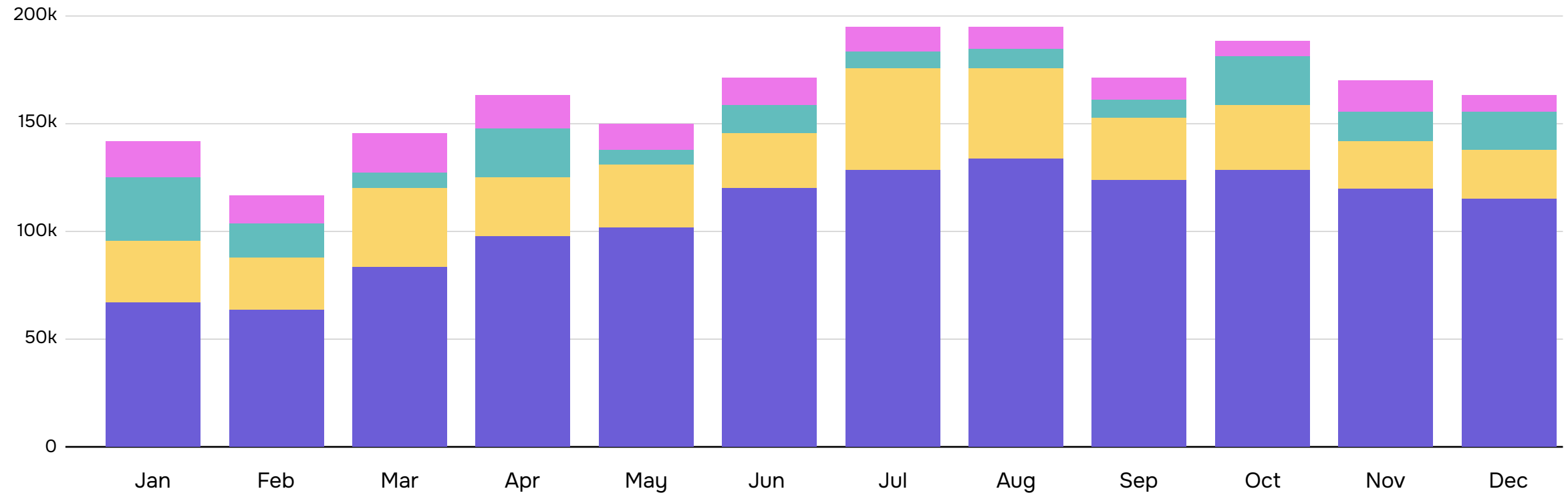
Tax Declaration Report

Benefits Summary

Employee Summary

Deduction Report

Payroll Summary



■ Deduction Report

The deduction report, often found on your payroll dashboard, provides a detailed breakdown of the various deductions withheld from an employees' gross pay. Common deductions included in this report may vary depending on factors such as company policies, employee benefits, and legal requirements, but they often include EPF, ESI, TDS, etc. This report helps employees understand the breakdown of their earnings and deductions and ensures transparency in payroll processing. Additionally, it assists employers and payroll administrators in accurately calculating payroll taxes, complying with legal requirements, and managing employee benefits effectively.

Deduction reports provide valuable insights into labor costs, benefit expenses, and other payroll-related expenditures. Employers can use this information for budgeting purposes, forecasting future payroll expenses, and making strategic decisions about compensation and benefits.

Sample Deduction Report Dashboard



[View Details](#)

EPF

₹ 11,97,638.00



[View Details](#)

ESI

₹ 65,505.00



[View Details](#)

TDS

₹ 9,16,551.00

Tax Declaration Report

The Tax declaration report offers essential insights into the tax declaration process. It provides a clear overview of the status of employees' tax declarations, indicating how many employees have submitted their declarations and how many are pending. Additionally, it indicates the number of declarations verified and those remaining to be verified by the payroll team.

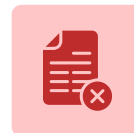
Moreover, the report can also highlight the total declared amount that has been verified, facilitating accurate tax calculations and financial planning. With this information, organizations can effectively prioritize tasks, address any outstanding declarations, and ensure compliance with tax regulations.

Sample Tax Declaration Report Dashboard

Select Financial Year 2024-2025



Verified IT Declaration Total
₹ 25,000.00



Unverified IT Declaration Total
₹ 95,000.00



Total Employees
03

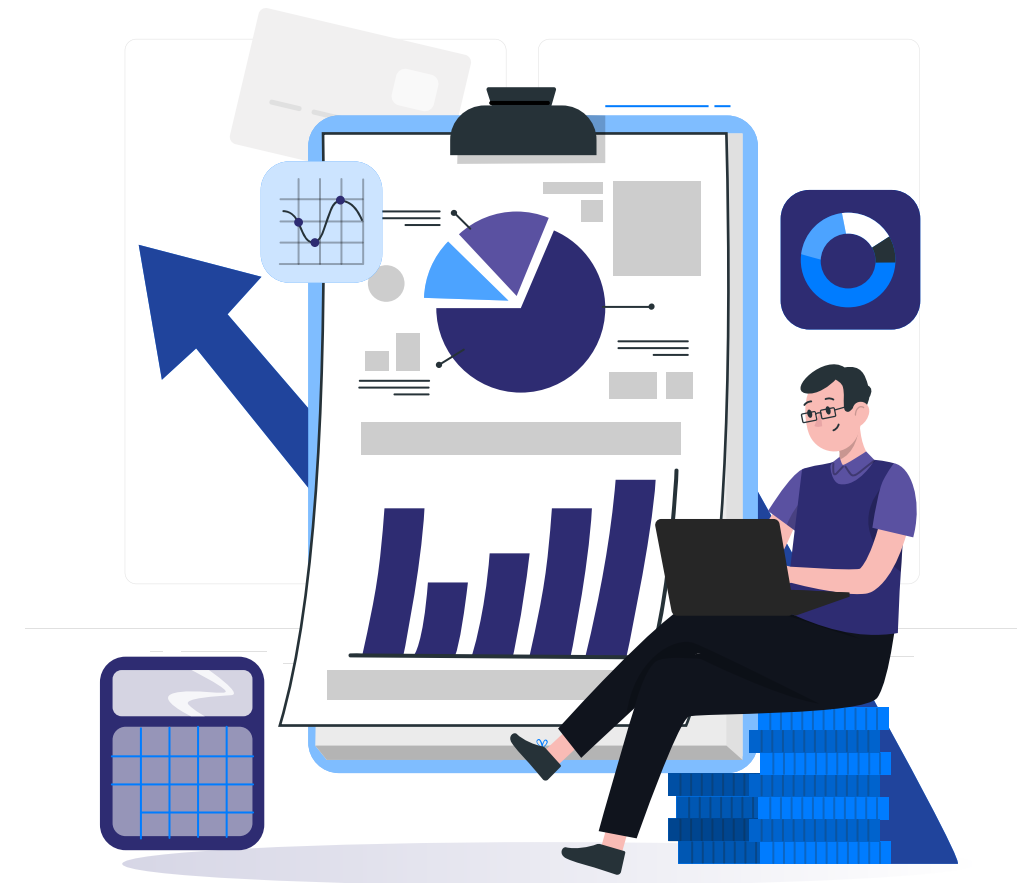
Employee Name	Employee Code	Batch	Verified IT Declaration Total (₹)	Unverified IT Declaration Total (₹)
Piyush	T1002	Full Time	0.00	35,000.00
Vihaan	T1124	Full Time	25,000.00	0.00
Pavan	T1243	Full Time	0.00	60,000.00

04 Expense Management

The expense management module of your HRMS platform allows your employees to submit their expenses. The platform records the expenses and categorizes them to provide you with a holistic view of your overall expenditure.

Expense Reports

As we said earlier, expense reports are categorized views of your company's expense transactions. The categories can be travel, accommodation, food, or any other, depending on the nature of your business. These reports visualize the outflow of money for different purposes. Such a breakdown helps you in efficient budgeting and prevents you from overspending as well. A detailed analysis can spot loopholes in the reimbursement policies, resulting in better policy formation. Many strategic decisions can also be taken based on expense reports to optimize your organization's bottom line.



Sample Expense Management Report Dashboard

₹ 2.13 Lac

Overall Air Travel Spend



₹ 67,255

Overall Cab Travel Spend



₹ 5.05 Lac

Overall Train Travel Spend

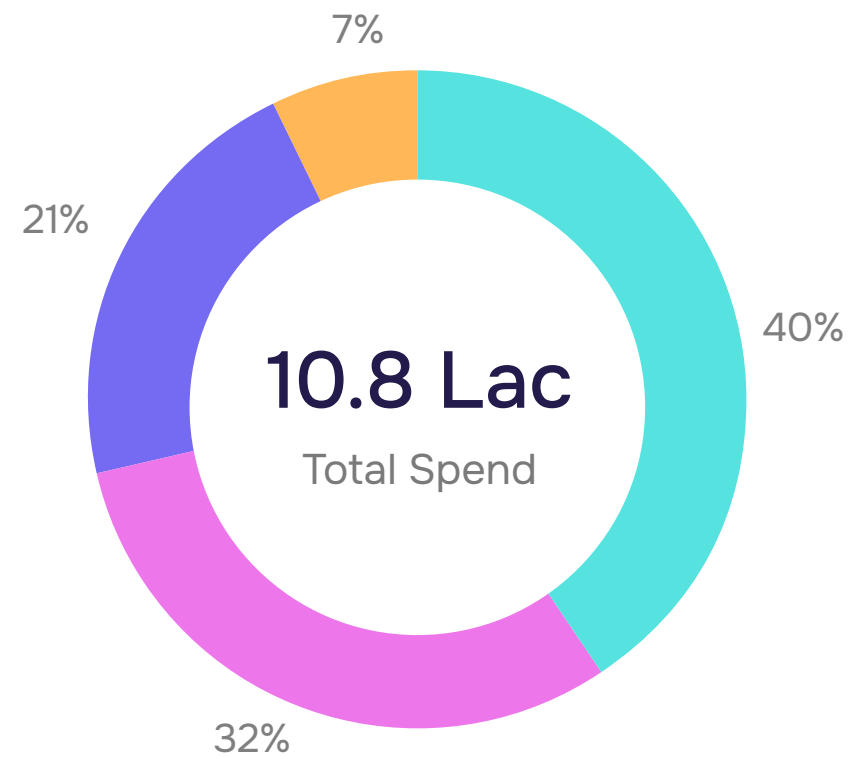


₹ 3.02 Lac

Overall Hotel Spend

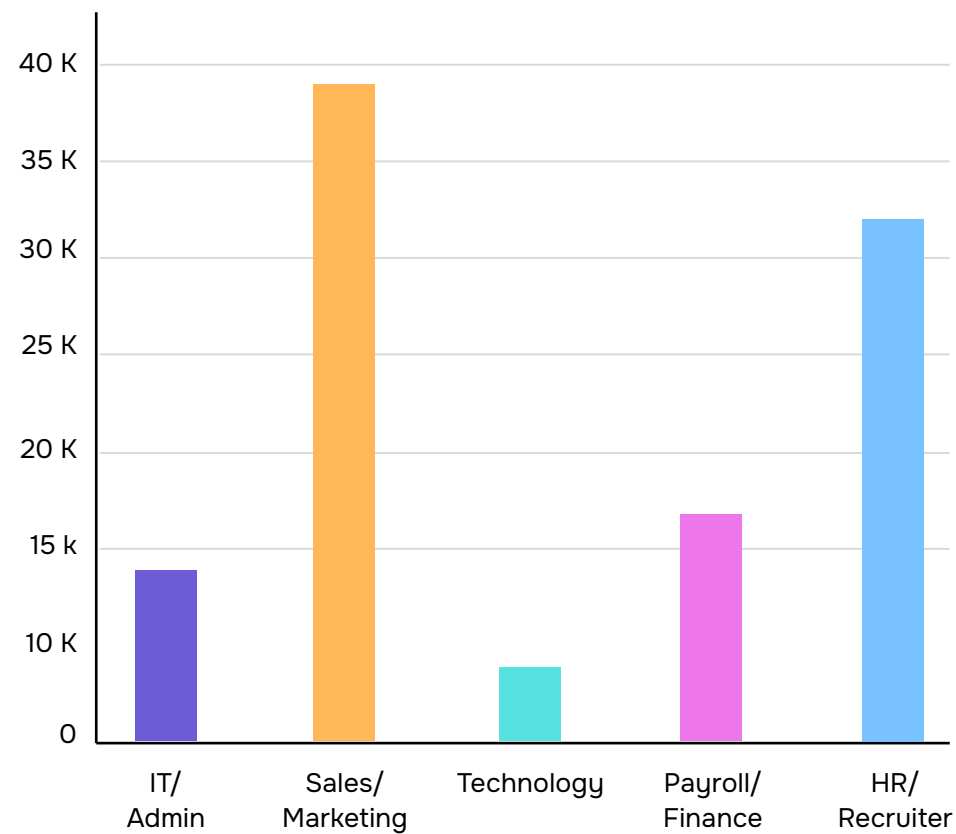


Monthly Expenses - Category



- Train Travel Spend
- Hotel Spend
- Air Travel Spend
- Cab Travel Spend

Monthly Spend Analysis - Department



Monthly Claim Status



05 Performance Management

You can have two types of reports in your HRMS platform at the performance management stage

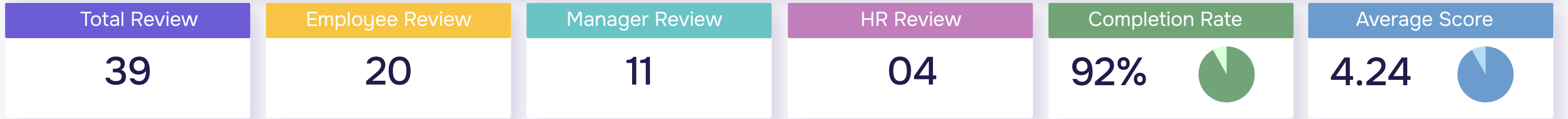
- Reports on the status of your performance appraisal process.
- The performance assessment of your entire workforce.

Performance Appraisal Status

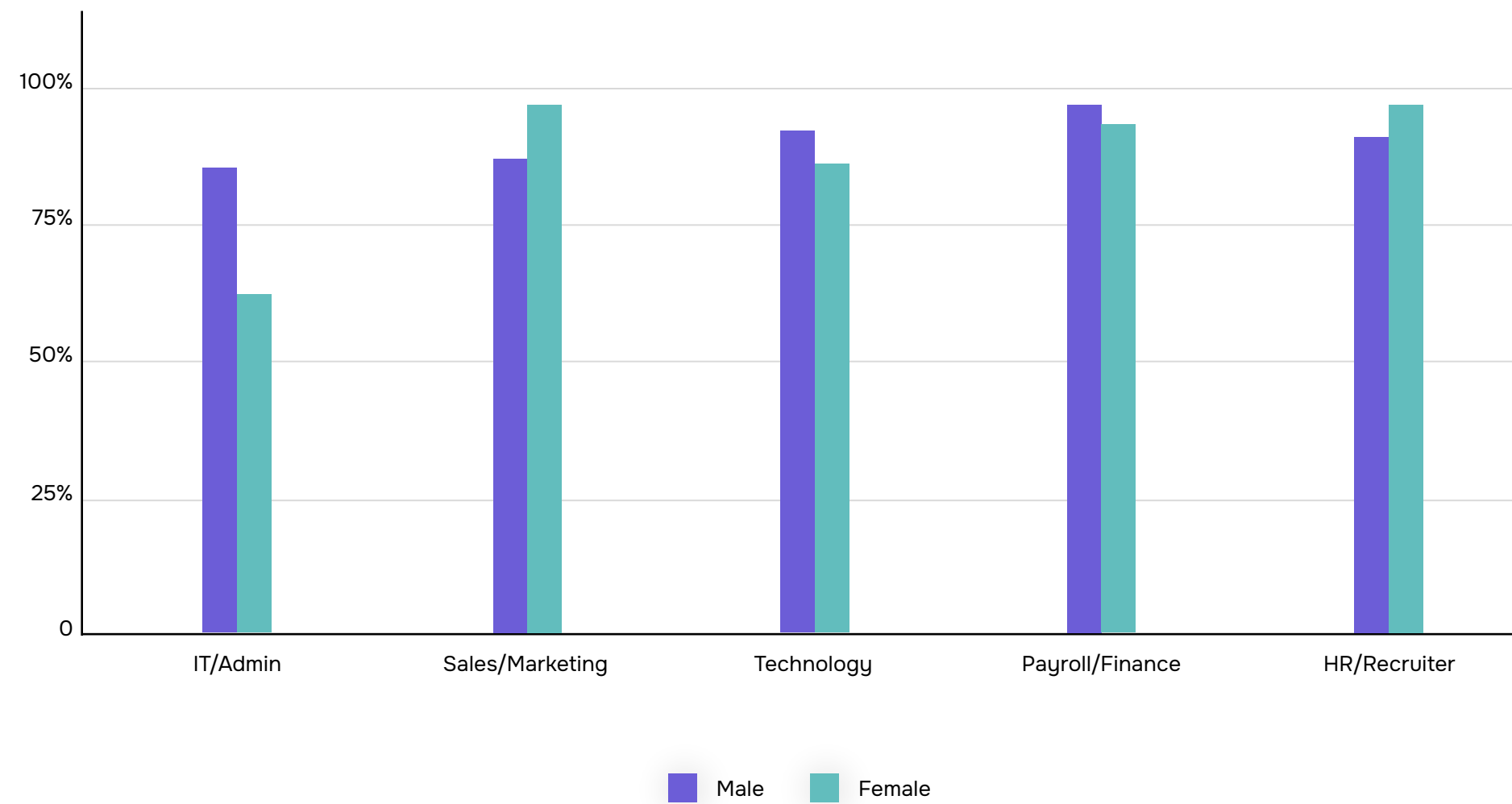
The status of your performance management process shows the progress of performance appraisals within your organization. By tracking how many employees have completed their appraisals and how many are yet to do so, you understand the overall pace of performance management implementation. This information helps send timely reminders to remaining employees, encouraging them to complete their appraisals promptly.



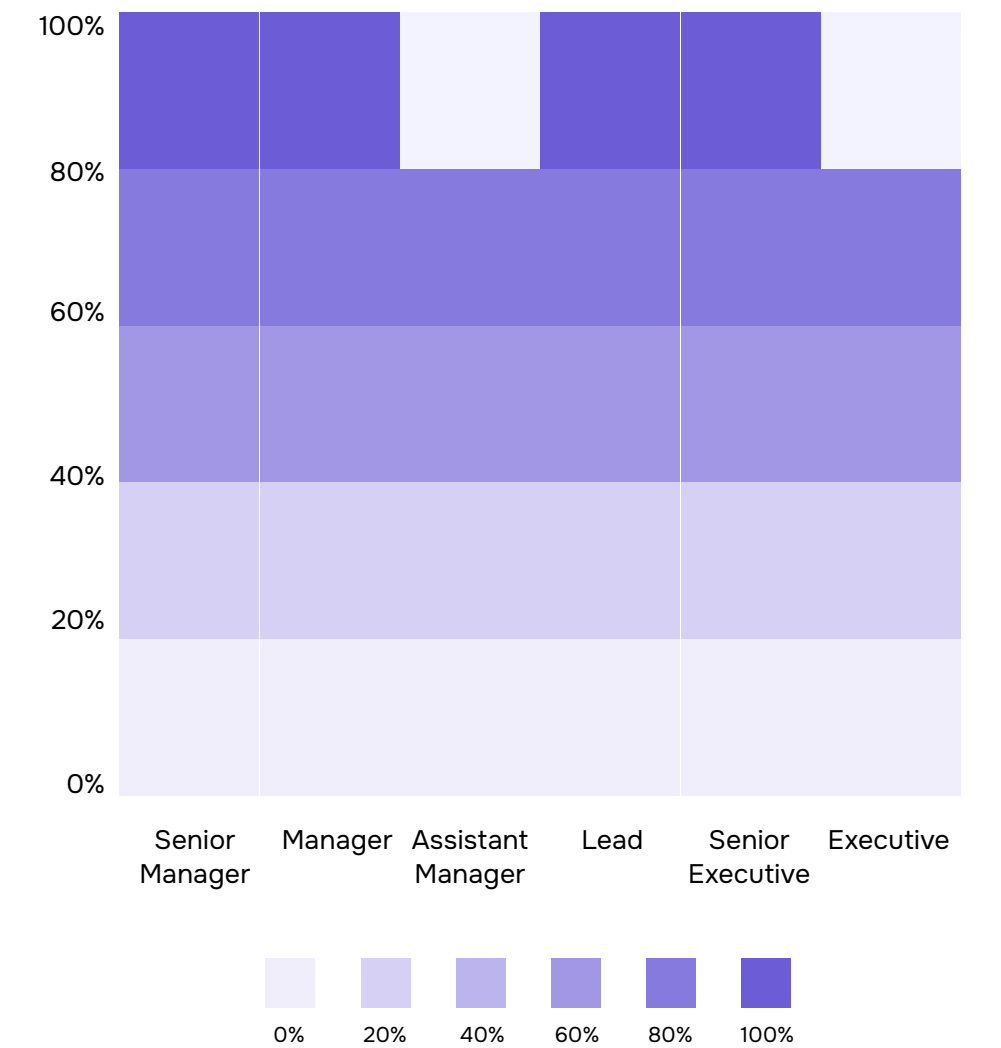
Sample Performance Report Dashboard



Performance by Department



Performance by Position

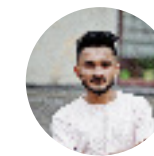
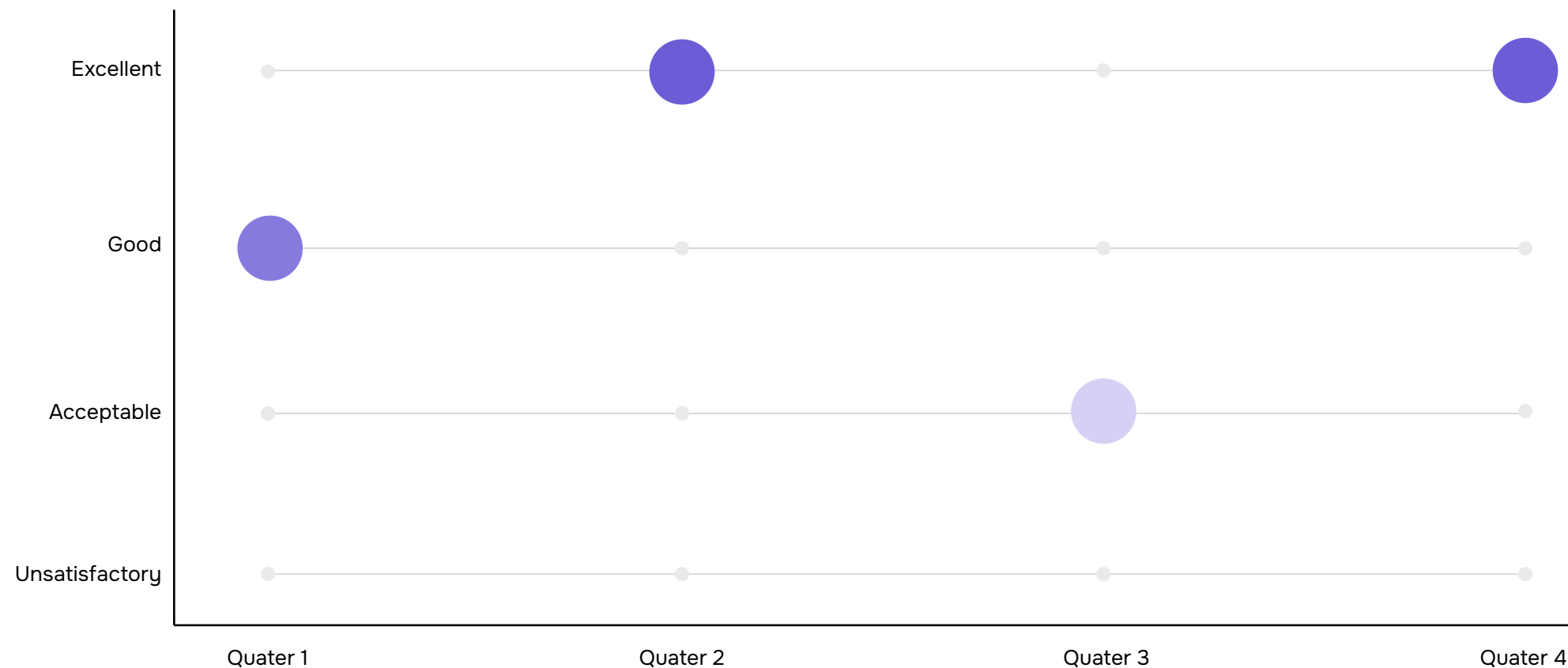


Performance Assessment of Your Workforce

The PMS module of your HRMS platform can also provide insights into the overall performance of the workforce. Through features such as the 9-box grid matrix or other evaluation frameworks, HRMS platforms can offer a clear picture of how employees are performing collectively.

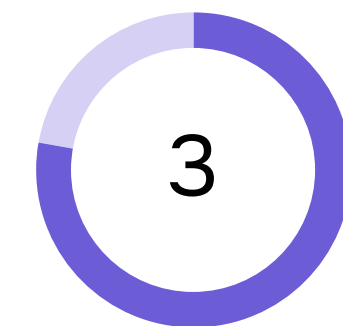
It categorizes employees based on various performance indicators, providing a visual representation of talent distribution and alignment with organizational goals. By utilizing the data generated by the PMS, organizations can identify trends, assess skill gaps, and make informed decisions about talent development and resource allocation

Sample Individual Annual Performance Assessment Dashboard



Piyush Kumar

Senior Executive - Inside sales



Overall Rating in
Annual FY 2023-24

Final Rating: Good

06 Exit Management

Data collection at the exit stage happens mainly during two processes

- Exit Formalities
- Exit Interviews

During exit formalities, HR professionals utilize the HRMS platform to generate and track exit checklists, which outline essential steps such as returning company assets, completing exit interviews, and providing feedback. Additionally, the platform enables HR personnel to monitor the progress of each offboarding task, send automated reminders to both employees and relevant stakeholders, and compile comprehensive reports for auditing purposes

Data collected during exit interviews helps with strategic decision-making. These interviews provide valuable insights into the reasons behind employee departures, offering a deeper understanding of workplace dynamics and potential areas for improvement. For instance, if multiple departing employees cite a lack of career advancement opportunities as a primary reason for leaving during exit interviews, HR and management can reevaluate their talent development programs and succession planning strategies. By addressing these concerns, organizations can enhance employee retention, foster a more positive workplace culture, and ultimately drive long-term organizational success.



Sample Employee Separation Report Dashboard

Total Exit

324

[View Details](#)



Survey completed

07

[View Details](#)



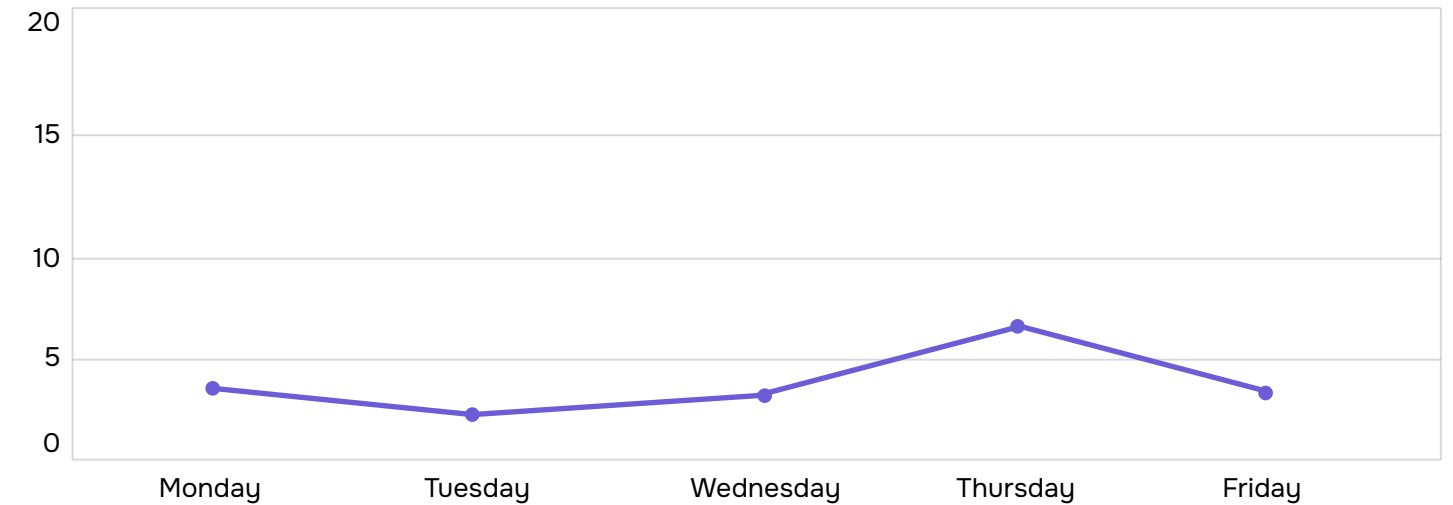
Notice Period

12

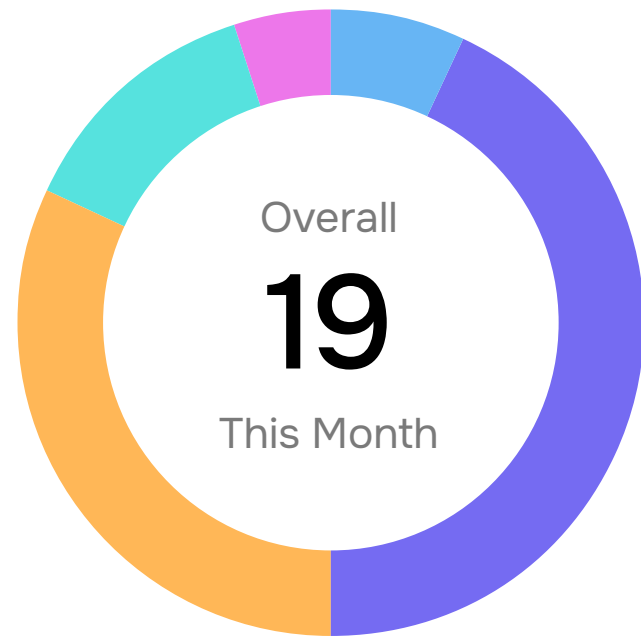
[View Details](#)

Employee Exit Report

Week **Month** Year



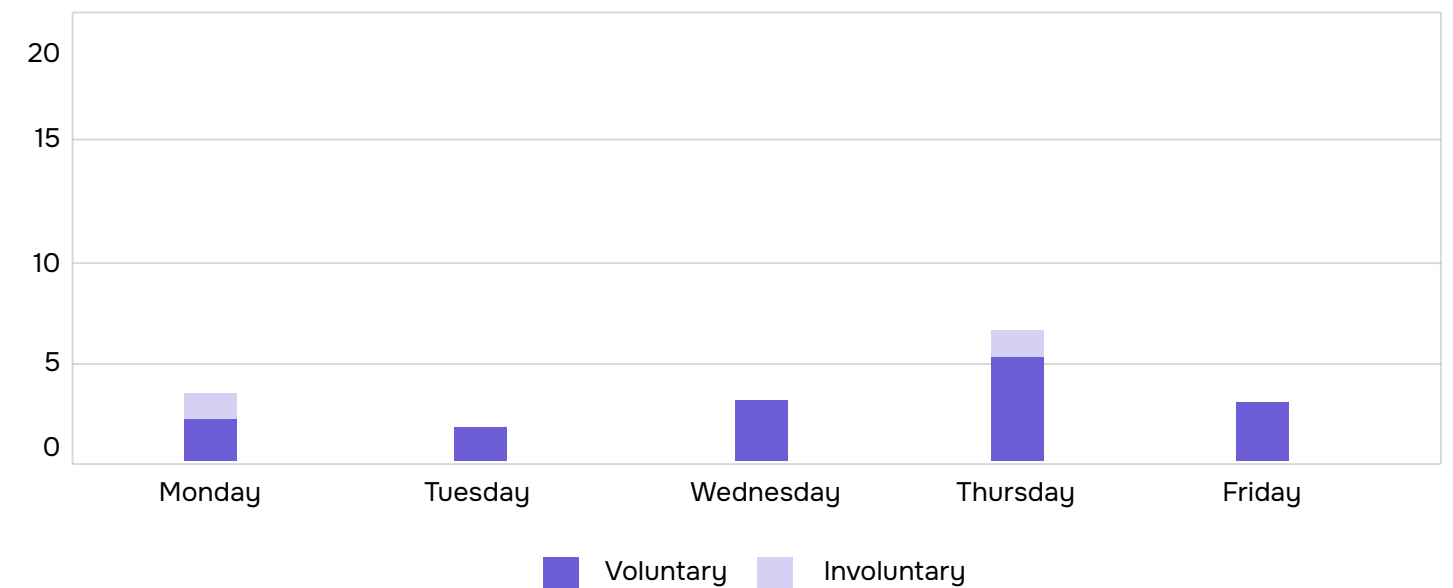
Employee Exit Reason



- Personal / Family Circumstances 7%
- Better opportunity 43%
- Work-life balance 32%
- Career change 13%
- Relocation 5%

Employee Exit Type - Voluntary and Involuntary

Week **Month** Year



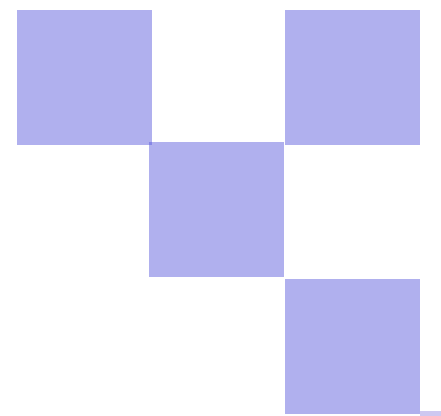
07 Traditional vs Data-Driven HR

While traditional HR methods often rely on subjective assessments and standardized processes, data-driven HR management harnesses the power of advanced analytics to drive strategic decision-making and optimize workforce performance.

By leveraging data insights, organizations can gain a deeper understanding of their employees, identify trends, and proactively address issues before they escalate. This shift towards data-driven approaches not only enhances efficiency but also fosters a culture of continuous improvement and innovation within the HR function.

The table below tries to distinguish the two approaches in a detailed manner. You'll notice that the data-driven approach is more empirical, objective, and proactive; whereas the traditional approach is more intuitive, subjective, and reactive. This is why the data-driven approach delivers better results than the traditional approach.

Let's have a closer look at the differences between the two approaches

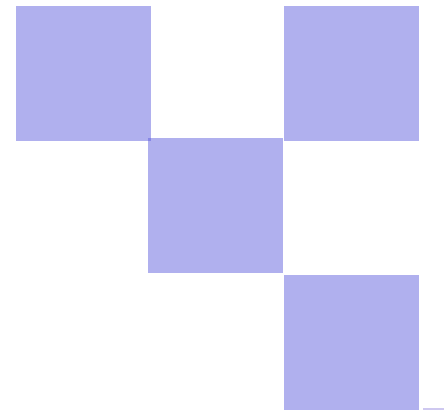
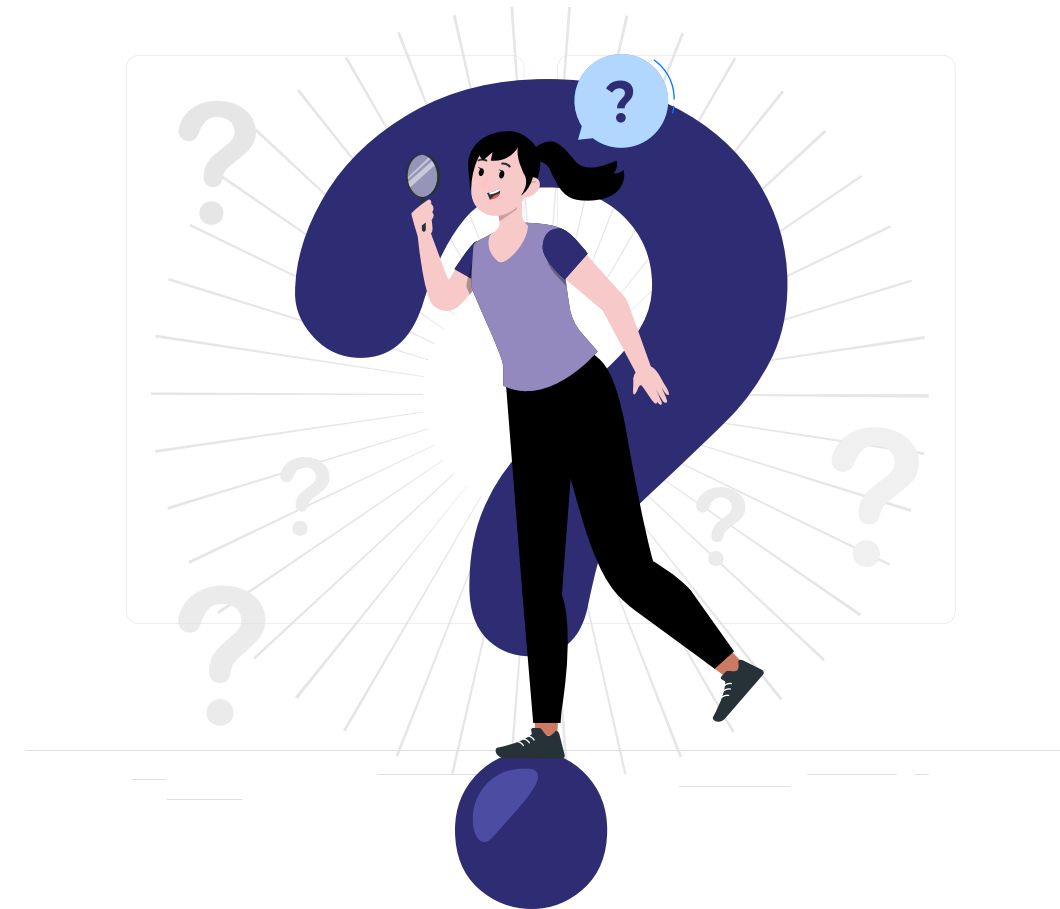


	Data-Driven Approach	Traditional Approach
Decision-Making	Relies on empirical evidence and insights derived from data analysis.	Relies on intuition, past experiences, and anecdotal evidence.
Evidence-Based Practices	Utilizes data analytics to identify patterns, trends, and correlations, enabling evidence-based HR practices.	Relies on subjective assessments and traditional HR practices without leveraging data-driven insights.
Strategic Planning	Emphasizes strategic workforce planning, talent management, and performance optimization based on data-driven insights.	Tends to focus more on reactive HR activities such as administrative tasks and compliance without a strategic focus.
Employee Engagement and Retention	Proactively monitors employee engagement, analyzes factors influencing retention, and implements targeted interventions based on data insights.	May overlook employee engagement issues and rely on generic retention strategies without considering individualized needs or underlying causes.
Recruitment and Hiring	Utilizes data analytics to optimize recruitment processes, identify top talent sources, and improve candidate selection based on performance data.	Relies on traditional recruitment methods, such as job postings and referrals, without leveraging data to assess recruitment effectiveness or candidate quality.
Performance Management and Development	Tracks and analyzes key performance indicators (KPIs), identifies performance trends, and uses data to tailor training and development initiatives.	Relies on subjective performance evaluations and standardized training programs without leveraging data insights to customize development plans.

08 What's Next?

Adopting a data-driven approach in HR management offers numerous benefits for companies seeking to enhance their workforce effectiveness and organizational performance. By leveraging data analytics, organizations can gain valuable insights into employee behaviors, trends, and preferences, enabling them to make more informed decisions and implement targeted interventions to improve employee engagement, retention, and productivity.

Additionally, data-driven HR management enables organizations to identify talent gaps, optimize recruitment processes, and align workforce strategies with business objectives more effectively. Leveraging technology and HRMS platforms further streamlines this process, providing organizations with the tools and capabilities needed to collect, analyze, and act upon HR data efficiently and at scale. With technology-enabled data-driven HR management, companies can unlock the full potential of their workforce and drive sustainable growth in today's competitive business landscape.



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