

HRM Dashboard - Real-Time Industry Project

LIVE DEMO

 Hosted on Render: <https://hrm-dashboard-w0zd.onrender.com>

 Demo Video:

KEY FEATURES

->Dynamic Dashboard View

- Flashcards: Active Employees, Attrited Employees, Attrition Rate
- Interactive filters: Department, Year, Quarter, Location, Mode of Exit

->Data Visualization (Plotly)

- Pie,Bar, and Timeline charts for Onboarding and Attrition
- Department wise attrition rate Comparison
- Reason and Mode of Exit Analysis

->Data Management

- Add,Edit,Remove employee records via web interface
- Search & manage onboarding data
- Upload latest Excel file directly via Web UI

->Excel Backend

- Uses Excel(.xlsx) sheets (onboarding,attrition) as the data source
- Avoids the need for complex databases or paid tools

SCREENSHOTS:

HRM Dashboard

Add Remove Manage Upload Excel

Active Employees
150

Attrited Employees
147

Attrition Rate
98.0%

Avg Tenure (Yrs)
0.27

Onboarding
Attrition

Department

All

From Date

dd/mm/yyyy

To Date

dd/mm/yyyy

Years

All

Quarter

All

Mode of Exit

All

Location

- Bangalore
- Bangalore TR
- CBE Office
- Chennai
- Chennai TR
- Coimbatore Office
- Coimbatore TR

Apply Filters **Reset**

Trend Over Time

Onboarding Trend Over Time (Monthly)

Time	Count
May 2024	25
Jun 2024	30
Jul 2024	16
Sep 2024	10
Oct 2024	8
Nov 2024	9
Dec 2024	5
Jan 2025	12
Feb 2025	8
Mar 2025	8

Filtered Onboarding by Department

Department	Count
Parcel	70
3 PL	30
CHA	15
FTL	12
PARCEL	8
3PL	5
Accounts	3
FREIGHT FORWARDING	2
Human Resource	2
Operations	2
Freight Forwarding	2
IT	1
Finance & Accounts	1
Transport-Internal Move	1
HR	1
Commercial	1
Customer Service	1
FREIGHT FORWARDING	1

Department-wise Attrition Table

Department	Onboarded	Attrited	Attrition Rate (%)
3 PL	31	40	56.34
Parcel	68	66	49.25
Human Resource	3	0	0.0
Finance & Accounts	1	0	0.0

Filtered Employee Data

3022094	Sathish	2024-04-01 00:00:00	3 PL	Junior Officer	LMW MTD
3022095	Prabhakaran	2024-04-01 00:00:00	Parcel	Junior Officer	Chennai TR
3022096	Marimuthu	2024-04-01 00:00:00	3 PL	Assistant Officer	LMW MTD
3022097	Goutham	2024-04-01 00:00:00	Human Resource	Senior Officer	CBE Office
3022098	Sugankumar	2024-04-01 00:00:00	3 PL	Junior Officer	ELGI
3022099	Pradeepkumar	2024-04-01 00:00:00	3 PL	Junior Officer	LMW MTD
3022100	Aravindan	2024-04-01 00:00:00	Parcel	Assistant	Chennai TR
3022101	Saravanan	2024-04-01 00:00:00	3 PL	Assistant officer	LMW MTD
3022102	Karthick	2024-04-02 00:00:00	3 PL	Junior Officer	LMW MTD

Export as PNG

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Preview

HRM Dashboard

Add Remove Manage Upload Excel

New Joiners

6

No. of Leavings

44

Filtered Attrition Rate

90.91%

Avg Tenure (Yrs)

0.27

Onboarding

Attrition

Department

3 PL

Years

2025

Mode of Exit

All

From Date

dd/mm/yyyy

Quarter

All

Location

Bangalore TR

To Date

dd/mm/yyyy

Apply Filters

Reset

CBE Office

CEB Office

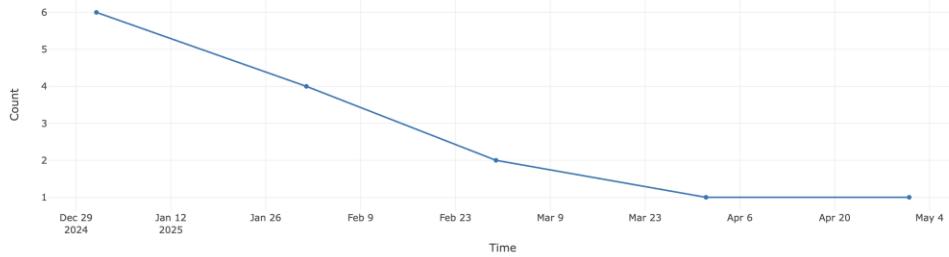
Cbe Office

Chennai

Chennai TR

Coimbatore TR

Attrition Trend Over Time (Monthly)



Mode of Exit Distribution



Department-wise Attrition Table

Department	Onboarded	Attrited	Attrition Rate (%)
3 PL	6	14	70.0
Parcel	19	15	44.12
Human Resource	0	0	0
Finance & Accounts	0	0	0
FTL	0	1	100.0
Transport-Internal Movement	0	0	0

Filtered Employee Data

Emp_Code	Name	DoR	Mode_of_Exit	Location	Department
3021106	Thiraviam Rabheal	2025-04-30 00:00:00	Resigned	LMW Unit II	3 PL
3021127	Ramachandran Duraisamy	2024-07-03 00:00:00	Resigned	LMW MTD	3 PL
3021174	Ravi Kumar Subramani	2024-11-14 00:00:00	Resigned	LMW Unit II	3 PL
3021270	Rathinavelu Sakarapani	2024-05-06 00:00:00	Resigned	LMW Unit II	3 PL
3021329	Deivakumar Chidambaram	2024-05-31 00:00:00	Retired	LMW Unit II	3 PL
3021457	Kamala Kannan Palanisamy	2024-06-06 00:00:00	Resigned	LMW MTD	3 PL
3021695	Muthu Manikandan Mariyappan	2024-03-04 00:00:00	Resigned	LMW Unit II	3 PL
3021823	Premkumar	2024-03-06 00:00:00	Resigned	LMW MTD	3 PL

[Export as PNG](#)[Export as PDF](#)

+ Add New Employee

Employee Code

EMP001

Manual Override Code (Optional)

EMP999 (optional)

Name

Date of Joining

dd/mm/yyyy



Department

Designation

Location

[Add Employee](#)[Back to Dashboard](#)

The image shows a screenshot of a web application interface. At the top, there is a modal window titled "Remove Employee" with a trash can icon. It contains a text input field labeled "Enter Employee Name to Remove" with the placeholder "e.g., Abishek". Below the input field are two buttons: a red "Remove" button and a grey "Back to Dashboard" button.

Below the modal, the main content area has a title "Manage Employees" with a magnifying glass icon. A search bar with the placeholder "saravanan" is positioned above a table. To the right of the search bar are "Search" and "Dashboard" buttons. The table has columns: Emp_Code, Name, DoJ, Department, Designation, and Location. The data in the table is as follows:

Emp_Code	Name	DoJ	Department	Designation	Location
3022101	Saravanan	2024-04-01 00:00:00	3 PL	Assistant officer	LMW MTD
3022196	Saravanan M	2024-10-07 00:00:00	Parcel	JUNIOR OFFICER	Trichy TR
3022218	Saravanan Manikumar	2025-01-02 00:00:00	Parcel	Junior Officer	Salem TR
3022225	Saravanan Natesan	2025-01-20 00:00:00	Parcel	Senior Officer	Salem TR
3022236	Saravanan Ravichandiran	2025-03-03 00:00:00	Parcel	Junior Officer	Chennai TR
3022243	Saravanan Gunasekaran	2025-03-14 00:00:00	CHA	Deputy Officer	Chennai

TECHNOLOGIES USED

Component	Technology
Backend	Python Flask
UI	HTML, Bootstrap
Charts	Plotly.js
Data Storage	Microsoft Excel
Server	Gunicorn
Deployment	Render.com

FOLDER STRUCTURE

```
.  
  └── data/  
    └── employee_data_v1.0.xlsx  
  └── templates/  
    ├── index.html  
    ├── add_employee.html  
    ├── remove_employee.html  
    ├── manage.html  
    ├── edit_employee.html  
    └── upload.html  
  └── static/  
    └── styles.css (optional)  
  └── app.py  
  └── requirements.txt  
└── README.md
```

SETUP & RUN LOCALLY

1. Clone the repository:

```
git clone https://github.com/yourusername/HRM_Dashboard.git  
cd HRM_Dashboard
```

2. Create a virtual environment & activate it:

```
python -m venv venv  
source venv/bin/activate # macOS/Linux  
venv\Scripts\activate # Windows
```

3. Install dependencies:

```
pip install -r requirements.txt
```

4. Run the Flask server:

```
python app.py
```

DEPLOYMENT GUIDE (RENDER)

1. Ensure the following files exist:

- app.py
 - requirements.txt
 - Optional: Procfile with web: gunicorn app:app
2. Connect GitHub repository to Render.com
 3. Select "Web Service" → Choose your repo → Set build command:
pip install -r requirements.txt
Start command:
gunicorn app:app
 4. Render will build & deploy your app. You'll get a public URL.

SHEETS USED

- onboarding: Emp_Code, Name, DoJ, Designation, Location, Department
- attrition: Emp_Code, Name, DoR, Reason, Location, Department, Mode_of_Exit

USE CASE

This project was developed for Chakradhara Aerospace and Cargo Pvt Ltd as part of a live internship initiative to replace Excel-based manual HR tracking with a real-time, web-enabled dashboard. It demonstrates how data visualization, lightweight infrastructure, and Excel compatibility can be combined to create a smart, cost-efficient HR solution.(NOTE: THE DATAS USED ARE DERIVED FROM THE ORGINAL SOURCE AND MANIPULATED AS A MOCK DATASET, IT DOESNT CONTAIN ANY POTENTIAL COMPANY DATA WHICH IS PRIVATE AND CONFIDENTIAL)

CONTACT

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GIVE A STAR

If you found this project insightful or useful, please consider giving it a  on GitHub!