

# **EMPLOYEE ATTRITION**

**PROJECT REPORT** 



DECEMBER 11, 2024
TECHNOCOLABS
Indore

### **ANALYSIS**

#### **OVERVIEW:**

- 1) Data is already well defined.
- 2) There are no duplicate values in the dataset.
- 3) There are no missing values in the dataset.

### EXPLORATORY DATA ANALYSIS(EDA):

- 1) Shape of the data set: Rows-1470, Columns-35
- 2) Attrition Trends:

## 1) **By Department:**

- HR: 12 employees with attrition, 51 without attrition.
- R&D: 133 employees with attrition, 828 without attrition.
- Sales: 92 employees with attrition, 354 without attrition.

## 2) By Job Role:

- Highest Attrition:
  - Laboratory Technicians: 62 employees.
  - Sales Represntatives: 33 employees.
  - Research Scientists: 47 employees.
- Lowest Attrition:
  - Research Directors: 2 employees.
  - Managers: 5 employees.

#### 3) Key Metrics:

### 1) Average Age:

- With Attrition: 33.6 years.
- Without Attrition: 37.6 years.

#### 2) Average Tenure at Company:

- With Attrition: 5.1 years.
- Without Attrition: 7.4 years.

## 3) Average Monthly Income:

- With Attrition: ₹4,787.
- Without Attrition: ₹6,832.

## 4) Satisfaction Levels:

• With Attrition:

Job Satisfaction: 2.47.

Environment Satisfaction: 2.46.

• Without Attrition:

Job Satisfaction: 2.78.

Environmental Satisfaction: 2.77.

#### **INSIGHTS:**

- Attrition is notably higher among Laboratory Technicians, Sales Representatives, and Research Scientists.
- **\$** Employees experiencing attrition have lower job and environment satisfaction scores.
- **!** Employees with higher monthly incomes and longer tenure are less likely to leave.