

A) How Will You Achieve This in AI?

To predict which employee may resign next, we can build a **supervised machine learning classification model**. The model will learn patterns from historical employee data and classify whether an employee is likely to resign based on behavioural and performance indicators.

B) 3-Stage Problem Identification

1. **Domain Identification:** Human Resource Analytics using Machine Learning.
2. **Learning Type:** Supervised Learning.
3. **Model Type:** Classification (predicting binary outcome: Yes/No for resignation).

C) Project Name

Manpower Resource Planning

D) Dummy Dataset

A sample dataset has been created with the following features:

- **Inputs:**
 - Long Leave (days)
 - Sick Leave (days)
 - Financial Issues (Yes/No)
 - Age (years)
 - Performance (Excellent/Good/Average/Poor)
- **Output:**
 - Likely_to_Resign (Yes/No)