

# AI PROBLEM IDENTIFICATION ASSIGNMENT

A company works with number of employees, all the works are dependents on the employees. Even if one of the employees resign the job immediately then assigned work will be not finished at the time, so delivery of the project to the clients will be delayed. Company planned to make solution for this, they want to know which employee may resign next. If they know previously, they can arrange alternative to avoid such problem. As an AI engineer you must give Solution to this.

- A) How will you achieve this in AI?
- B) Find out the 3 -Stage of Problem Identification
- C) Name the project
- D) Create the dummy Dataset

## A) How will you achieve this in AI?

By analyzing historical employee resignation patterns, we can leverage AI to predict individuals who are at risk of resigning, using data-driven learning models.

## B) Find out the 3 -Stage of Problem Identification

Stage 1: Machine Learning

Stage 2: Supervised Learning

Stage 3: Classification

## C) Name the project

AI-Powered Employee Retention Forecast.

## D) Create the dummy Dataset

S.No	Employee Name	Gender	Joining Date	Service Duration	Total Experience	Marital status	Current Status
1	John	Male	Dec-20	5	12	Married	Resigned
2	Peter	Male	Mar-22	3	5	Single	Working
3	Anna	Female	Jan-18	7	11	Married	Working
4	Elena	Female	Aug-24	1	9	Single	Working
5	Joe	Male	Mar-22	4	13	Single	Resigned
6	Hammer	Male	Jun-23	2	9	Married	Working