

# Hope Artificial Intelligence

## Scenario Based Learning

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?

This is date related variables so it called Time series analysis.

B) Find out the 3 -Stage of Problem Identification

1. Time series analysis
2. Supervised learning
3. Regressive

C) Name the project

Employee resignation prediction

D) Create the dummy Dataset.

Employee id	Tenure date	Department	Resigned/values
1	08-10-2023	Sales	0
2	22-11-2023	Engineering	1
3	16-10-2023	HR	0
4	05-11-2024	Engineering	0
5	29-10-2023	Sales	1
6	12-12-2023	HR	1