

## 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?

1. The data of all the employees should be collected which includes their job roles, tenure of working, performance scores, work hours, notice period, history of their previous jobs.
2. Analyse if there are reasons like work overload, frequent job changing people, team politics for people to resign the job.
3. Based on this criteria, prepare a model which classifies which employees would resign early. notice periods, work stressed people, frequent job changers can be used in the dataset to identify .
4. This can be evaluated by checking with few employees who resign.
5. This model can be deployed for continuous monitoring.

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

1. Identifying the problem.
2. Understanding about the data that can be collected.
3. Preparing the model.

### C) Name the project

Employee leaving prediction system.

### D) Create the dummy Dataset.

| Emp.ID | Age | Tenure (month) | Role      | Monthly hours | Performance score | Recent promotion | Last increase | Resign (Output) |
|--------|-----|----------------|-----------|---------------|-------------------|------------------|---------------|-----------------|
| 01     | 25  | 12             | developer | 160           | 4.5               | yes              | 6 months      | no              |
| 02     | 30  | 24             | analyst   | 145           | 4.0               | yes              | 8 months      | no              |
| 03     | 35  | 36             | network   | 125           | 4.0               | no               | 8months       | no              |
| 04     | 28  | 40             | manager   | 200           | 3.5               | no               | 12 months     | yes             |
| 05     | 45  | 42             | Team lead | 190           | 3                 | no               | 12 months     | yes             |