**Scenario**

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

**Answers**

A) Get employees behavioral data indicating who resigned and is still working. Based on the dataset, create a model to learn at what behavioral pattern an employee resigns then predict which employee(s) would resign next.

B) Stage 1 – Domain Selection---->Machine Learning/Deep Learning.

Stage 2 – Learning Selection--->Supervised Learning

Stage 3 – Classification/Regression Selection--->Classification

C) Employee Attrition Prediction

D) Dummy Dataset

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Employee Id | Name | Role | DOJ | Total Exp | Performance Rating | Avg Leaves Per Year | Employment Status |
| 334545 | Emp1 | Role 1 | 18-11-2000 | 23 | 3 | 10 | Working |
| 334546 | Emp2 | Role 2 | 01-01-1999 | 24 | 3 | 26 | Resigned |
| 334547 | Emp3 | Role 3 | 01-10-2012 | 11 | 4 | 27 | Resigned |
| 334548 | Emp4 | Role 4 | 18-01-2023 | 0 | 4 | 15 | Working |
| 334549 | Emp5 | Role 5 | 19-01-2022 | 1 | 2 | 29 | Resigned |
| 334550 | Emp6 | Role 6 | 20-01-2021 | 2 | 2 | 10 | Working |