A company works with number of employees, all the works are dependents on the employees. Evenif 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.

1. How will you achieve this in AI?

* By using machine learning -classification in AI going to find out the employee retention prediction with three stages.

1. Find out the 3 -Stage of Problem Identification

* STAGE 1: DOMAIN SELECTION :

Machine learning (As dataset are in excel and number format)

* STAGE 2: LEARNING SELECTION :

Supervised Learning (As requirement to predict is clear and input &output are well defined)

* STAGE 3: SUPERVISED CLASSIFICATION OR REGRESSION :

Its CLASSIFICATION – Because the output is category-based (Resign or continue)

1. Name the project

* Employee retention prediction

1. Create the dummy Dataset.

EMPLOYEE RETENTION DATASETS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Emp id | Salary | Projects Assigned | Project  Finished | Years of exp | Age limit | Label |
| 001 | 30000 | 10 | 8 | 2 | 25 | Continue |
| 002 | 40000 | 15 | 13 | 3 | 27 | Retention |
| 003 | 50000 | 20 | 15 | 5 | 30 | Continue |
| 004 | 60000 | 30 | 22 | 6 | 30 | Continue |
| 005 | 65000 | 30 | 28 | 7 | 35 | Retention |