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.

1. How will you achieve this in AI?

I will collect data about employees (like job satisfaction, salary hike, working hours, etc.) and use a machine learning model to predict which employee might resign. This way, the company can take action before it happens.

1. Find out the 3 -Stage of Problem Identification

Stage 1: Machine Learning

Stage 2: Supervised Learning

Stage 3: Classification

1. Name the project

Employee Resignation Predictor

1. Create the dummy Dataset.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tenure  (Years) | Job satisfaction (out of 5) | Salary hike (%) | Last promotion (Years) | Work life balance | resigned |
| 3 | 2 | 12 | 2 | 3 | No |
| 10 | 4 | 18 | 4 | 4 | No |
| 2 | 1 | 5 | 3 | 2 | Yes |
| 1 | 2 | 10 | Never | 2 | Yes |
| 5 | 3 | 15 | 1 | 3 | no |