**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.

1. How will you achieve this in AI?

Data Collection: Gather data on employee such as Name, Employee ID, Age, No of years working, Job Role, Performance Rating, WorkLifeBalance, Monthly Income, Manager reviews, Resignation Prediction.

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Training and Testing: Train the model on the training data and evaluate its performance on the testing data.

Monitoring System: The model in a real-time system to continuously monitor and predict which employees are at risk of resigning.

Conditions checks: Regularly update the model with new data.

1. Find out the 3 -Stage of Problem Identification?

1. Machine Learning.

2. Supervised Learning.

3. Classification.

C) Name the project?

Employee Resignation Prediction Projects

1. Create the dummy Dataset?

