Hope Artificial Intelligence

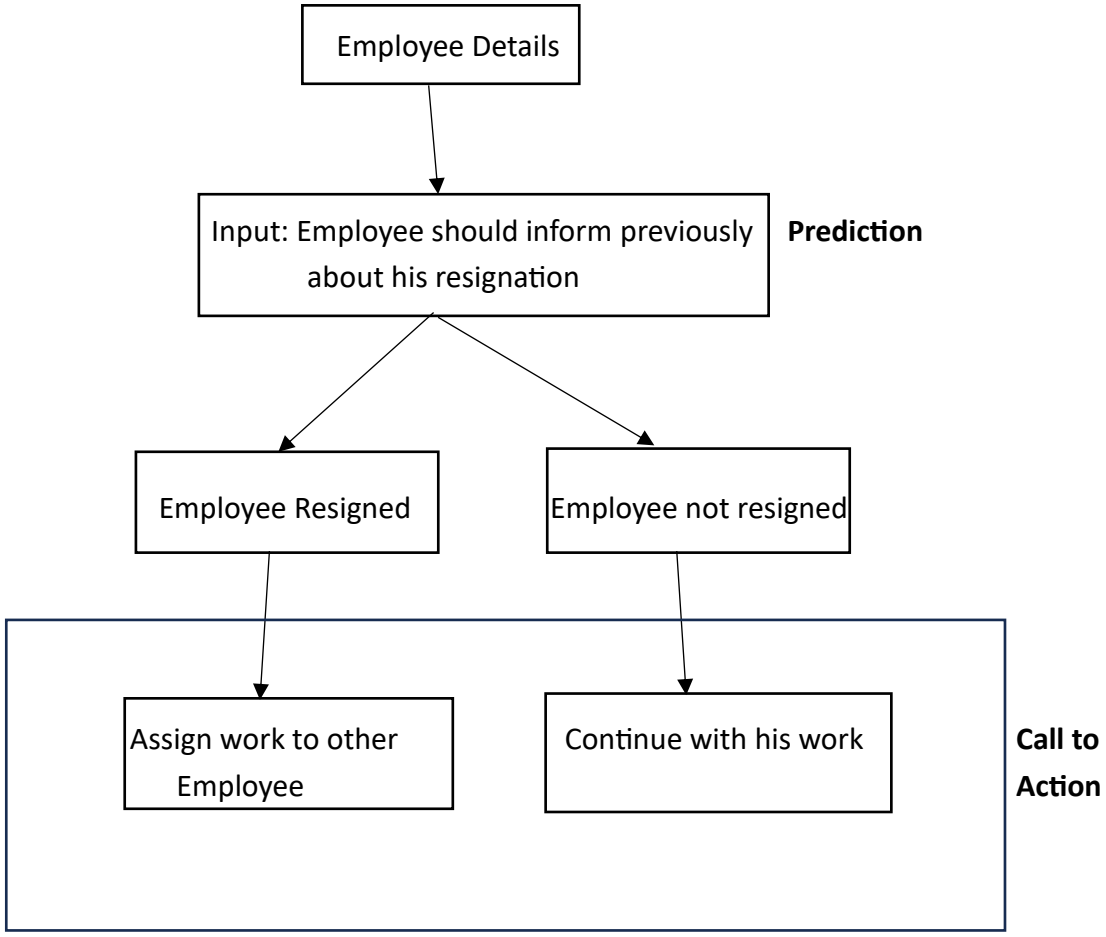
Scenario Based Learning

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?
B) Find out the 3 -Stage of Problem Identification
C) Name the project
D) Create the dummy Dataset.

A. How will you achieve this in AI?

Here the company is clear about his problem, if employee is going to resign we can assign the work to other employee, if not they can continue their work. So employee should inform about his resignation previously so that we can plan his task accordingly. So all these data can be saved in his database.



B. Find out the 3 -Stage of Problem Identification :

- **Machine Learning →** Here the input is the employee details so we can have the employee details in excel format, so we can consider the **Input as Numbers.** So in AI if input is Number we can give solution with Machine Learning.
- **Supervised →** In this problem we have clear idea about the requirement and the dataset, so we can continue with Supervised learning.
- **Classification →** Here the output is categorised by resigned or not resigned, so we can continue with Classification.

Machine Learning → Supervised Learning → Classification

C. Name the project:

Employee Resign Prediction

D. Create the dummy dataset.

Employee No	Employee Name	Employee Designation	Employee role F/P/T	Employee Qualification	Employee Status
1.	X	System Engineer	Full Time	B.E	Active (Not resigned)
2.	Y	System Engineer	Full Time	B.E	Resigned
3.	Z	Lead	Full time	B.E	Active (Not resigned)

Here Employee status is the Output and other columns are Input and the output is categorised by Resigned/ Not resigned and the input is clear and consider as numeric so we can give solution by using **Machine Learning, Supervised , Classification**.