Hope Artificial Intelligence

SCENARIO BASED LEARNING

PROJECT NO – 7

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?

In this problem statement our client clearly shows that they want to know the person who resign next, so automatically we should predict the particular employee resign or not

B) Find out the 3 -Stage of Problem Identification

Stage 1

- Inputs are numbers (eg- employee register number).
  We chose **machine learning / deep learning**
- As an Ai engineer, I would ask employees e-mail id instead because every employee expresses their willing of resign in mails. in this case we should chose our learning stage as **natural language process**

Stage 2

Requirement is clear and out label is also clear so we go with **supervised learning** (Note: if input has no out label consider as semi-supervised and after out label created same as supervised learning procedure)

Stage 3

Our requirement is not a number so we chose classification

C) Name the project

Employees resign prediction

D) Create the dummy Dataset

For machine/deep learning

Name	Register number	Team number	Prediction
Arun	IT3001	1	Will resign
Mani	IT3002	2	NO
Nirmal	IT3003	1	Will resign

For natural language processing

Ai generated details for willing to resign employee from email

Name	Email - Id	Reason for resign	Prediction
Arun	arun3001@gmail.com	Health	Will resign
Mani	mani3002@gmail.com	-------	NO
Nirmal	nirmal3002@gmail.com	salary	Will resign