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?

To predict resignation, company should track Job Satisfaction, Career Growth, Workload, Attendance, Performance, and Behavioral patterns. AI can analyze these indicators to flag employees at high attrition risk.

B) Find out the 3 -Stage of Problem Identification

Stage 1 – NLP

Stage 2 – Supervised Learning

Stage 3 – Classification

C) Name the project

Employee Attrition Prediction System

D) Create the dummy Dataset.s

ID	Age	Gender	Team	Years	Salary	JobSatisfaction	OT Hours	Attrition
101	29	Male	Business Analyst	3	55000	3	10	Yes
102	35	Female	QA	7	60000	4	5	No
103	40	Male	Development	10	75000	2	15	Yes
104	28	Female	QA	2	50000	4	8	No
105	32	Male	Development	5	58000	3	12	Yes
106	45	Female	Management	12	90000	5	2	No