

A) How will you achieve the AI?

Machine Learning (ML) techniques to analyze employee data, including work patterns, engagement levels, historical resignations, and personal/professional factors.

Use Natural Language Processing (NLP) to analyze employee feedback and sentiment from surveys, emails, or chats.

Implement an early warning system to alert HR about potential resignations.

B) Find out the 3- stage of problem Identification

1.Problem Recognition – Understanding the impact of employee resignation on project deadlines.

2. Data Collection & Analysis – Gathering historical employee data, resignation trends, workload distribution, and performance metrics.

3. Solution Implementation – Developing an AI-driven predictive model to forecast potential resignations and suggesting preventive actions.

C) Name the Project

Employee Retention Prediction

D) Create the dummy dataset

Employee_ID	Age	Experience (Years)	Job Role	Work Hours	Attendance	Resigned
208	29	2	Web developer	8	28	
58	35	3	Manager	8	30	
32	28	0	Product department	8	29	