Problem Identification Assignment:

Project Name: Employee turnover prediction

Requirement : Company want to know which employee may resigns this month to arrange the alternative to finish off the projects in date.

Domain Name :
Natural Language Processing – Text based prediction

Learning : Suprevised Learning

Learning type : Categorical value – resigning or not resigning : **Classification learning** based on output label in text form.

Model input/Dataset:

Name	DepName	Tenure	Salary	Performance	Behavior	Prediction
Baskar	Webdesigning	6yrs	13LPA	Completing task in time, enthusiastic to work under pressure and overcoming challenges curious to update self related to domain.	Co-ordination with peers is good, punctual in entering and exiting office, good rapport with manager	Staying
Kumaran	Webdesigning	3yrs	6LPA	Lethargic in completing task in time and facing difficulty to work under pressure and overcome challenges.	Co-ordination with peer is poor, taking many leaves.	Resigning
Murali	Business Analyst	5yrs	11LPA	Critical thinking, problem-solving, and decision-making at work is good, curious to learn new, excellent communication and recommending new ideas for business development	Entering and exit office is not punctual, taking leaves often, disengaged with manager and peers	Resigning
Bharath	Business Analyst	7yrs	15LPA	Critical thinking, problem-solving, and decision-making at work is good, curious to learn new, excellent communication and recommending new ideas for business development	Co-ordination with peers is good, punctual in entering and exiting office, good rapport with manager	Staying

Predictions : Resigning
Call to Action : Model alerts the respective team manager about employee resignation

Prediction: Staying
Call to Action: Model stops alerting.