## Exercise on people analytics

Chimera corporation is a large office supplies & automation company operating across many cities in W. Europe. It has about 18,000 employees.

The Head of HR at Chimera has been worried about the high rate of attrition of Chimera's employees (about 14% compared to industry average of 8-9%). The cost of replacing an employee can be as much as 6 months of salary (severance, recruitment, re-training etc.), so that the high attrition rate creates a significant disadvantage for Chimera.

Chimera's HR function has gathered data for calendar year 2020 and has produced a cleaned dataset that describes several attributes for each of its employees who was employed with Chimera on Jan 1<sup>st</sup> 2021, also recording if they had left by Jan 1, 2021.

Based on analysis of the data, please suggest some measures that Chimera can take to reduce attrition. You will have to cover the intervention proposed, why you think it will work, potential risks, and why Chimera should adopt it.

Materials:

Table 1: Variable description

Table 2: Means and Standard Deviations

Variable	Unit		
exit	Whether the employee left the company this year	Left (1) or not (0)	
training	Amount of training given to the employee Weeks per year		
kpi_performance	Evaluation of the employee by his superior last quarter	Company-specific scale	
boss_survey	Evaluation of the superior by the employee last quarter	Company-specific scale	
city_size	Population of the city where the employee is located	Millions of people	
years_since_promotion	Time since the employee was last promoted	Years	
job_satisfaction	Job satisfaction reported by the employee last quarter	Company-specific scale	
half_day_leaves	Number of times the employee asked permission to leave for half a day	Half-days per year	
team_size	Number of peers in the employee's team	Number of people	
rank	Hierarchical rank of the employee	Lowest (1) to highest (5) rank	
age	Age of the employee	Years	
gender	Gender of the employee	Female (0) or male (1)	
salary	Salary of the employee	Thousands of dollars	
variable_pay	Is some of the employee's performance linked to performance?	Percentage	
core	Is the employee part of the core business?	Peripheral functions (0) or core (1)	
high_potential	Has the employee been identified as high-potential?	ential? No (0) or yes (1)	
part_time	Is the employee on a part-time contract?		
remote	Is the employee part of a team whose members are in different locations?		
tenure	How long has the employee been working with the company?	Years	
boss_tenure	How long has the employee's boss been working with the company?	mployee's boss been working with the Years	
subordinates	How many subordinates does the employee have under his control?	is Number of people	
admin_support	Does the employee have an assistant?	No (0), part-time (1) or full-time (2)	
local	s the employee a national of his place of work? No (0) or yes (1)		
clock_in	Does the employee have to record his working hime?	ng hime? No (0) or yes (1)	
tenure_unit	How long has the employee been working in his current unit? Years		

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Table 1: Variable Description

Мах	Min	Std. Dev.	Mean	0bs	Variable
2	0	.7326212	.6000441	18132	admin_supp~t
56	19	4.747666	37.8903	18132	age
1.388878	3795679	.2	.5	18132	boss_survey
32	3	1.058489	3.622711	18132	boss_tenure
9.4	. 9	2.803621	5.423323	18132	city_size
1	0	. 4767183	.3491617	18132	clock_in
1	0	.397995	.8026693	18132	core
3	1	.6605311	1.380157	18132	education
1	0	. 4831597	. 6287227	18132	gender
9	0	1.23192	4.599327	18132	half_day_l~s
1	0	.3099527	.107655	18132	high_poten~l
1.389581	2350918	. 2	. 6	18132	job_satisf~n
1.128582	.3269826	.1	. 7	18132	kpi_perfor~e
1	0	.4898121	.6004853	18132	local
1	0	. 4054327	.2073682	18132	part_time
5	1	. 9983409	1.767979	18132	rank
1	0	.4581353	.2996912	18132	remote
118.3824	21.6647	6.979665	38.99093	18132	salary
8	0	2.541652	1.811273	18132	subordinates
15	1	2.012287	7.106111	18132	team_size
32	1	1.010504	1.589455	18132	tenure
32	1	.8768111	1.3924	18132	tenure_unit
4	1	.582952	2.600596	18132	training
20	0	5.874855	7.000993	18132	variable_pay
6	1	.7585781	3.603353	18132	years_sinc~n
1	0	.342273	.1355063	18132	exit

Table 2: Means & Standard Deviations