# Big Bug Consulting

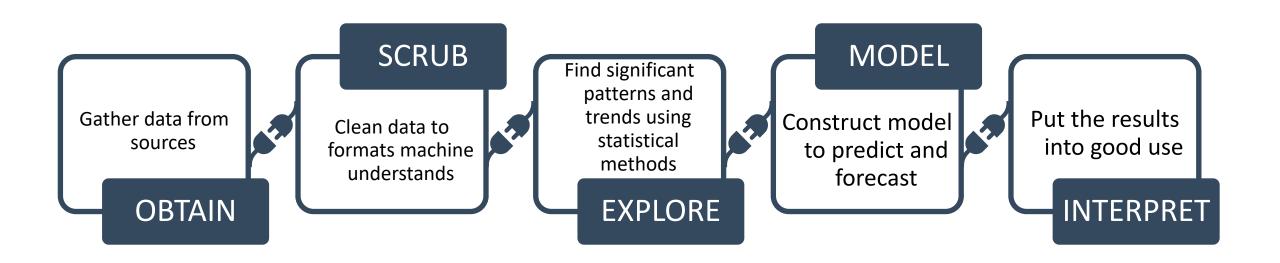
### WHAT IS CAUSING ATTRITION?

How to prevent it?







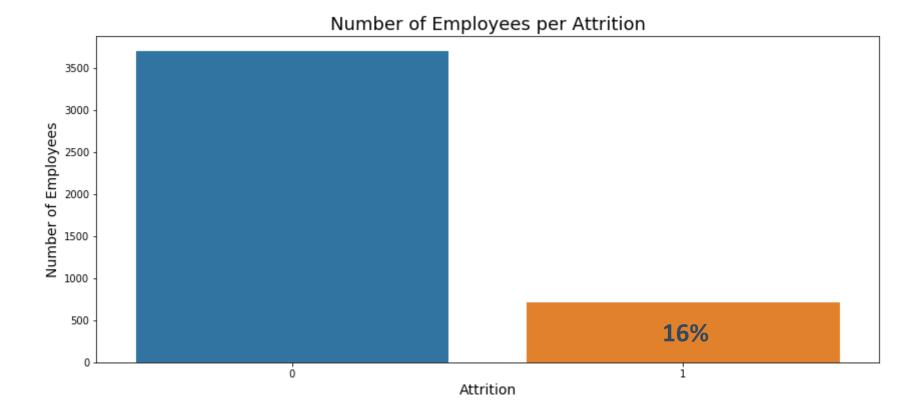






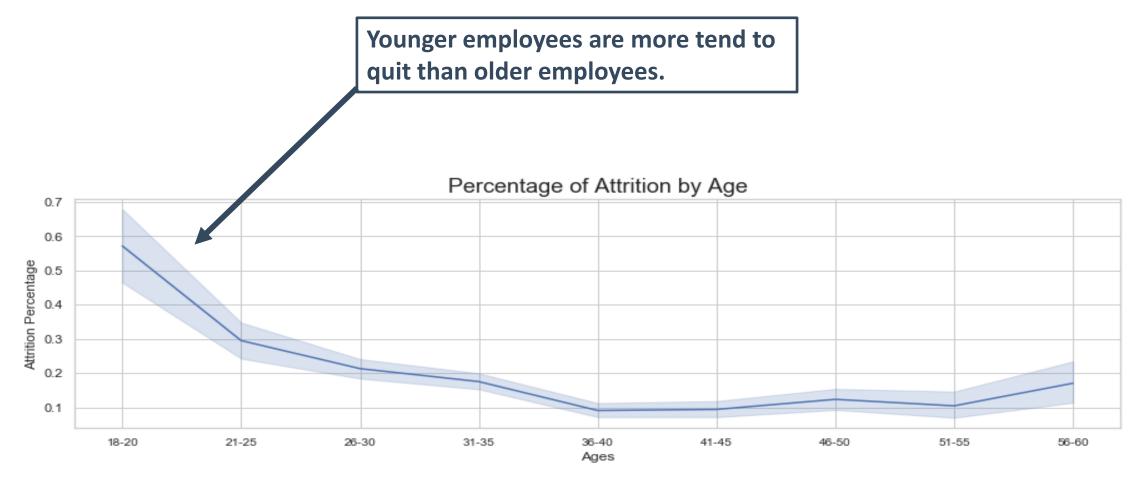






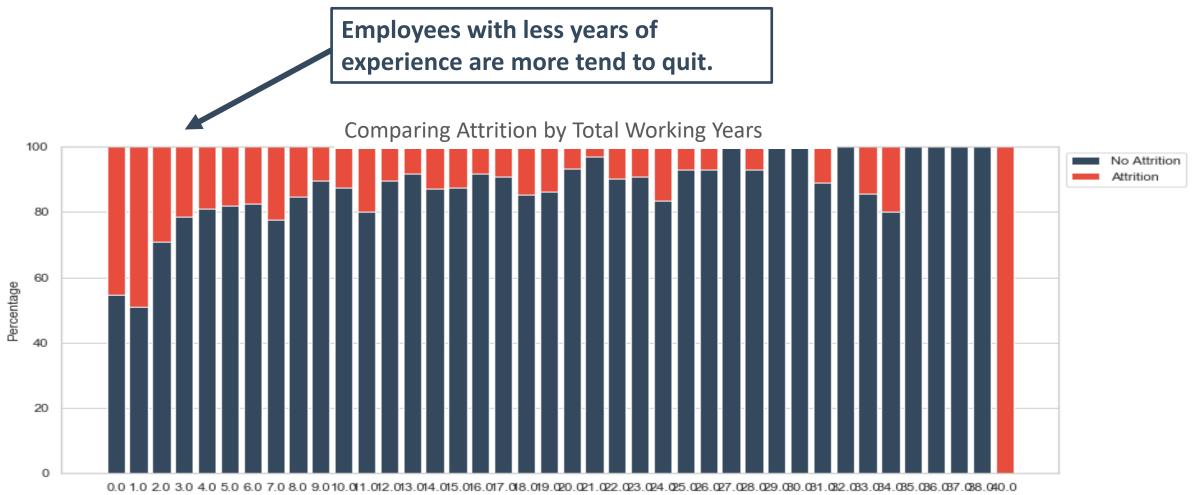






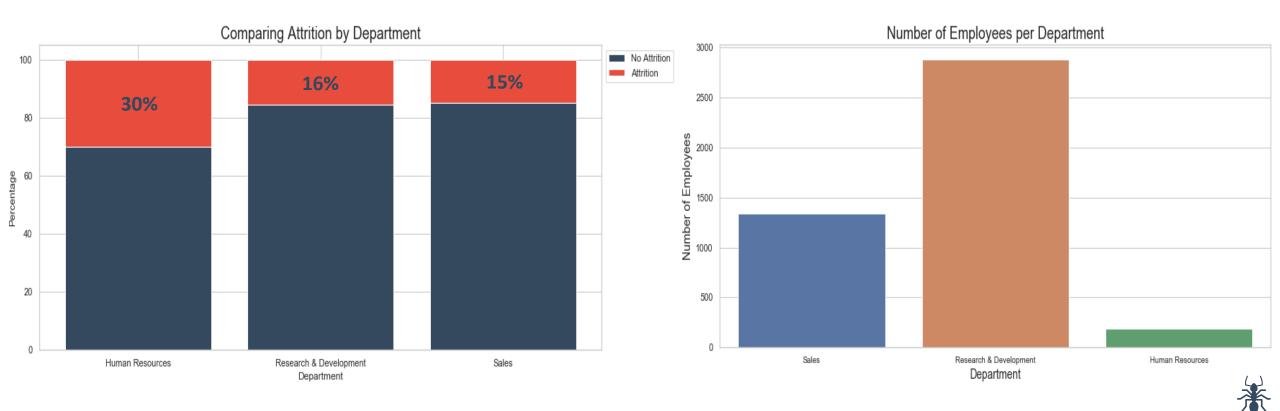


## >>> Total Working Years

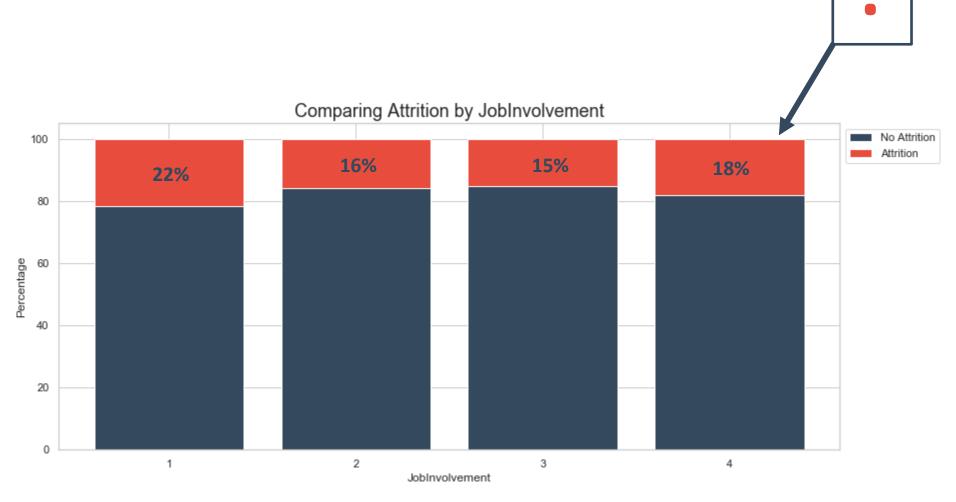


# Human Resources Department

- 30% of attrition in HR department.
- 34% of the HR employees that leaved rated the lowest value in the Work Life Balance survey.

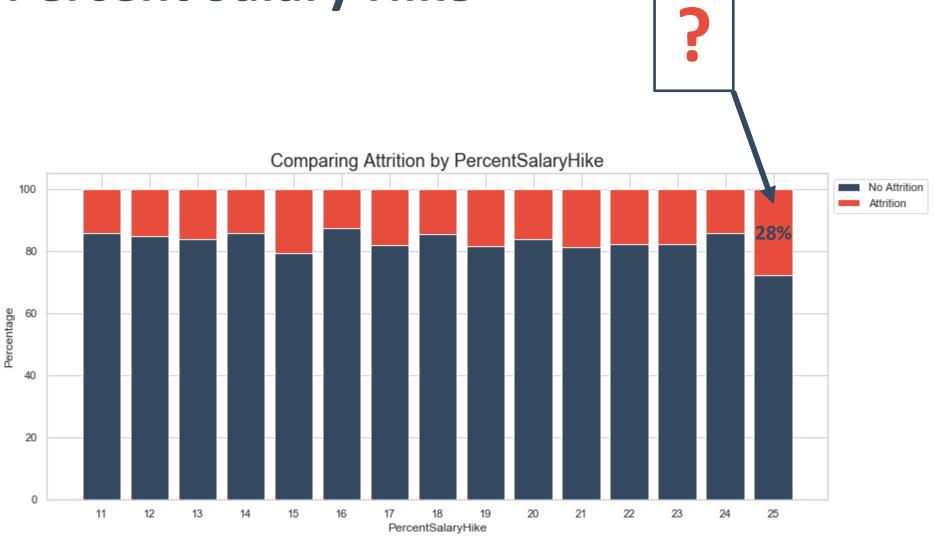


### 斯達 Job Involvement





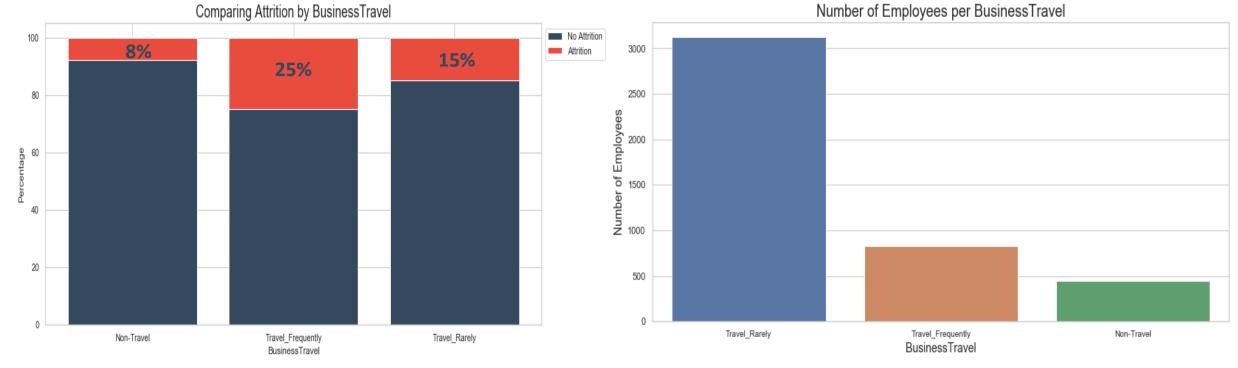
# Percent Salary Hike





# Travel Frequency

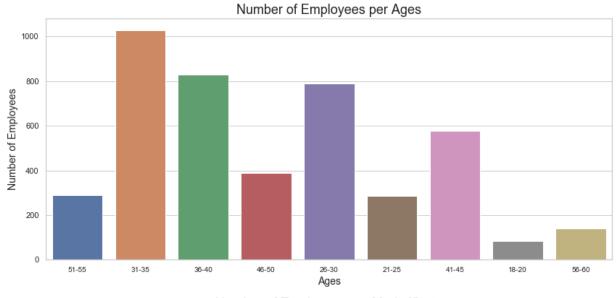
- 25% of attrition on employees whose travel frequently and 15 on those who travel rarely.
- Is it necessary to travel nowadays?

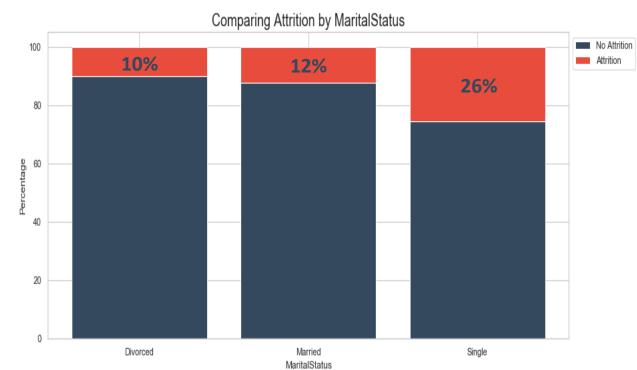


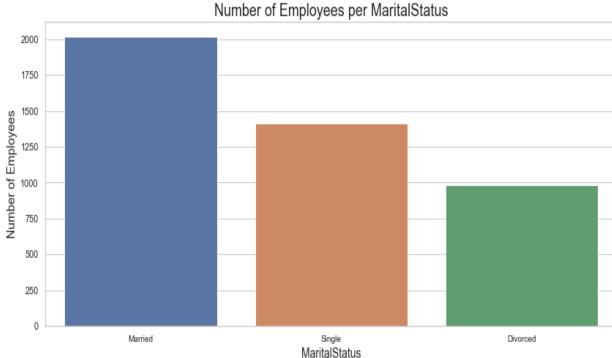




• Single employees are 26% prone to leave the company.

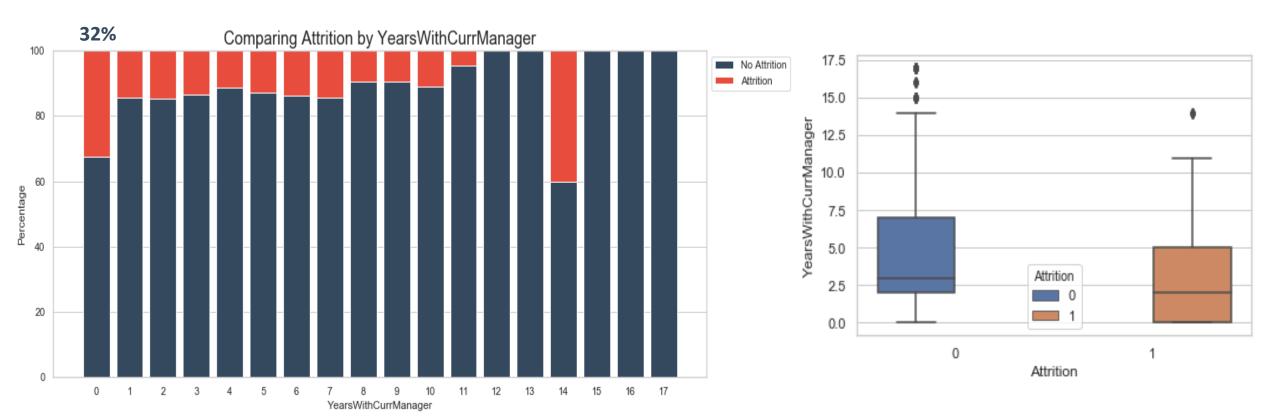






# **Years With Current Manager**

• 14% (42) managers leaved the company last year.











RANDOM FOREST SCORE: 93%



DECISION TREES SCORE: 86%



ADABOOST SCORE: 84%

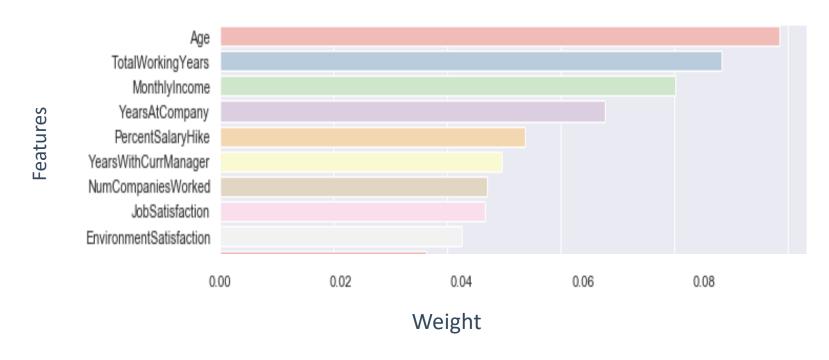


LOGISTIC
REGRESSION SCORE:
84%



#### **■** Model Selected: Random Forest Classifier





Model accuracy: 93%







- •Employees with less worked years have more probabilities to leave the company than employees with more years worked.
- •57% of employees from 18 to 20 years old leaved the company last year.
- •29% of employees from 21 to 25 years old leaved the company las year
- •Human Resources department has problems, Are they hiring under the right profile? Are they hiring on time?
- •We can see more turnover on 4 rated employees in Job Involvement than those who got 1.
- •We can also see that the highest percentage of turnover is in those employees who had the highest salary increasing. Why are they increasing 25% their salary and leaving the company?
- •Those employees with 1 year with their current manager tend to leave more than those with more. This is particularly interesting assuming that 14% (42) of the managers leaved the company last year.
- •Single employees are 26% prone to leave the company.



# — RecommenData



- Collect more information of 18-29 age employees.
- Pay special attention to single employees to understand better the reasons why they are leaving.
- If experience is needed, more than two previous Jobs.
- Review Human Resources work conditions and people management.
- Develop programs to retain talent.



# Future Work



- Are the employees leaving the company or getting fired? Does the company save the employee's resignation reasons?
- Determine the cost of internal/external trainings and why some employees have 1 and others 6.
- When an employee leaves, the company needs to know why. If is going to a better position we can assume that we are losing talent.
- Is the salary increasing the only incentive that the company offers to employees to stay?
- It would be great to have some business results.



