What makes employees leave: A tale of two organisations

By Brianna O'Connor and Shannon Chen

Why did we choose to investigate our chosen topic?

What data did we want? Did we find it?

How did we settle on a suitable dataset?



Preparing the Data

Org A: Sales Team in an Insurance Firm

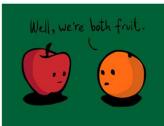
- Over 19k rows of data
 - employee data noted at multiple timepoints
- 2381 Unique Employees

Org B: Organisation from an unspecified industry

- Over 14k Unique Employees
- Multiple departments











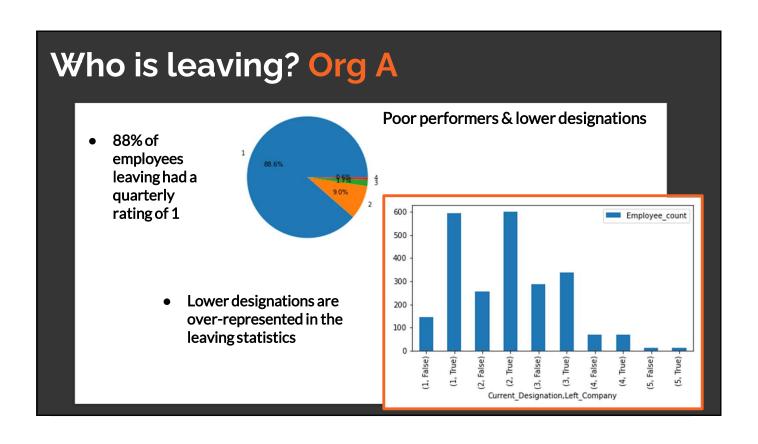
Who are leaving?

The Best and the Brightest? 'Bad' workers? Certain Departments?

Why did they leave?

- → Working across the lifespan? Demographic trends?
- → Performance Management?

 Were employees' salary proportional to their efforts and role? Were promotions given to the best worker?
- → Workload? Type of Work? Overworked employees? Long hours?

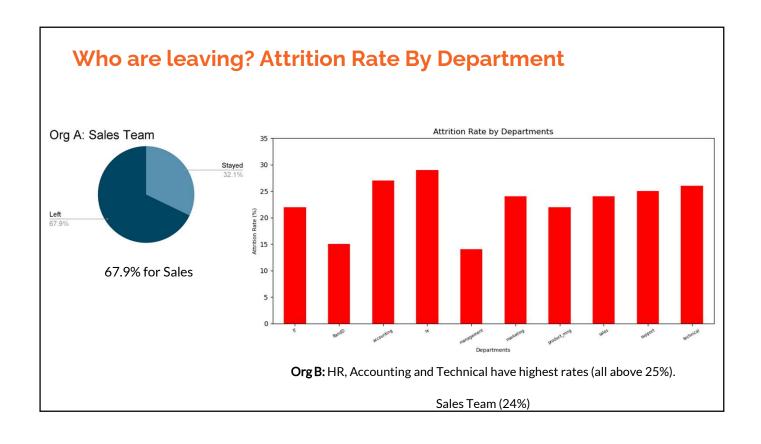


Who are leaving? Org B last_evaluation number_project average_montly_hours mean median mean median mean median promotion_last_5years Current_status 0 1 0.715527 0.715 3.786395 199.001168 198.0 0.718806 0.790 3.859797 207.577984 224.5 1 0.713467 0.710 3.796667 201.250000 208.0 2 0.588421 0.560 3.052632 177.736842 160.0 99.47% of employees who left:

Despite having best recent evaluation, working more hours, and taking on more projects as

NO promotion in the last 5 years

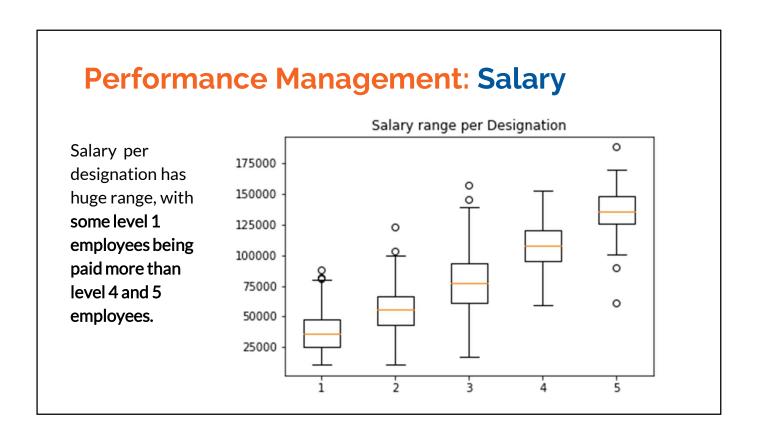
compared to other employees

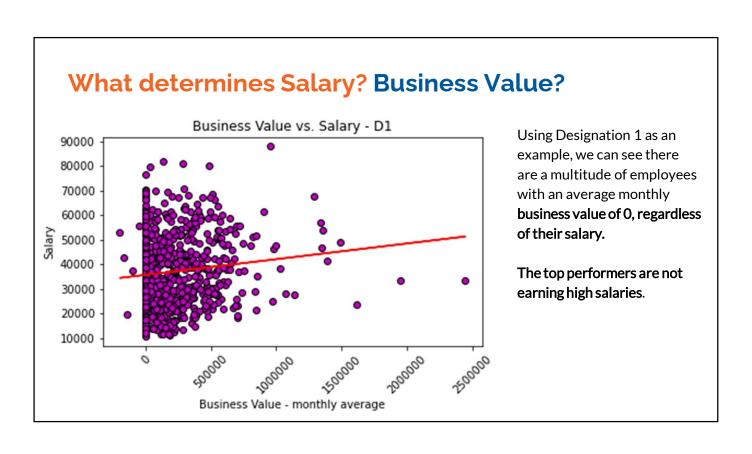


Performance Management

Were employees' salary proportional to their efforts and role?

Were promotions given to the best worker?





What determines Salary? Business Value?

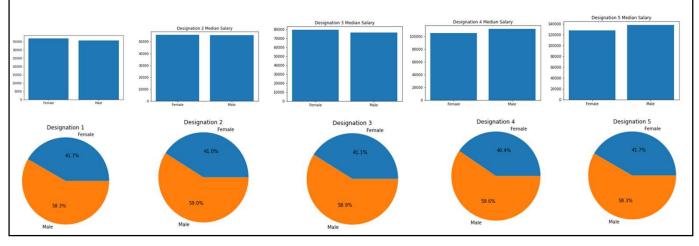
There is very little correlation between salary and business value at designations 1 to 4, and no correlation at designation 5.

Designation	pvalue	rvalue	Coefficient of determination
D1	0.001430	0.116150	0.013491
D2	0.000000	0.223202	0.049819
D3	0.000000	0.211118	0.044571
D4	0.031103	0.181651	0.032997
D5	0.933843	0.017899	0.000320

Gender bias? Unlikely . . .

58-60% male, 40-42% female at all levels.

- Not 50-50 split expected
- ❖ Proportion is same at all designations women are not being held back from promotion
- Salary is equal between genders at all levels women are not being paid less for doing the same job



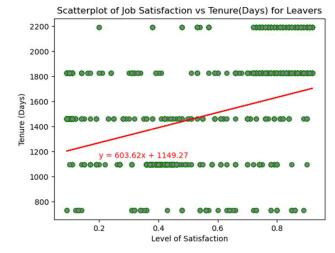
Workload & Type of Work

Did employees leave because they were overworked?

Why did they leave? (Job Satisfaction)

Org B - Job Satisfaction had an effect on tenure.

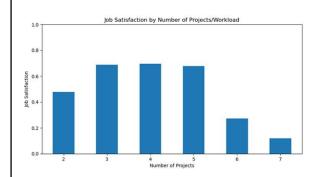
Org A - no Job Satisfaction variable

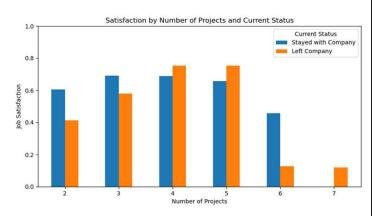


Employees who left Org B: Weak but significant positive correlation between Tenure(Days) and Job Satisfaction - 0.45 (p < .0001). As job satisfaction increases, tenure increases (and vice versa).

Why did they leave? (Workload)

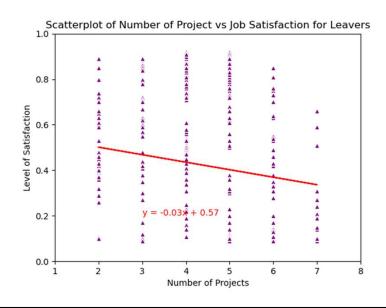
For Org B: 'Number of Projects' operationalised as an employee's workload, where more projects meant a higher workload.





Job Satisfaction is lowest when workload is high (Number of Projects > 5) or when workload is low (Number of Projects = 2). Trend persists when looking separately at stayers and leavers.

Relationship between workload and job satisfaction for leavers



Correlation between 'Number of Projects' (re. Workload) and Job Satisfaction: -0.23 (p < .0001)

Such that job satisfaction decreases as workload increases.

Recommendations

A tale as old as time - ensure that your best performers and hardest workers are recognised and rewarded. If not, they will leave.

Review salaries regularly to ensure fair reward.
Consider bonuses or commissions for high earners

Low and high workload can potentially affect job satisfaction negatively.

Limitations of analysis

- → POINT 1 both Companies
 Circumstances of Termination did they quit or were they fired?
- → POINT 2 both Companies
 Type of hire recruitment agency, internship
- → POINT 3 Org A Data from previous years to map career progression
- → POINT 4 Org B Demographic information - compare gender
- → POINT 5 Org B Salary details
- → POINT 6 Org B
 Data from previous dates particularly evaluation and satisfaction