

Rules of Attrition

Examining what drives employees to leave jobs and what encourages them to stay

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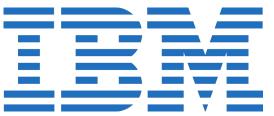
Attrition in America

27% of employees voluntarily left a position in 2018.

Replacement cost: 50-250% of an employee's annual salary







Human Resources Data

~1500 entries, 35 features

- HR info (level, pay, performance, years at IBM)
- Personal (age, gender, distance from work)
- Categorical (job title, dept, work travel frequency)

\$15,700,000

Estimated cost of attrition

General Findings

Turnover ~16%

Standard tendency toward more turnover in entry level jobs





Model conclusions

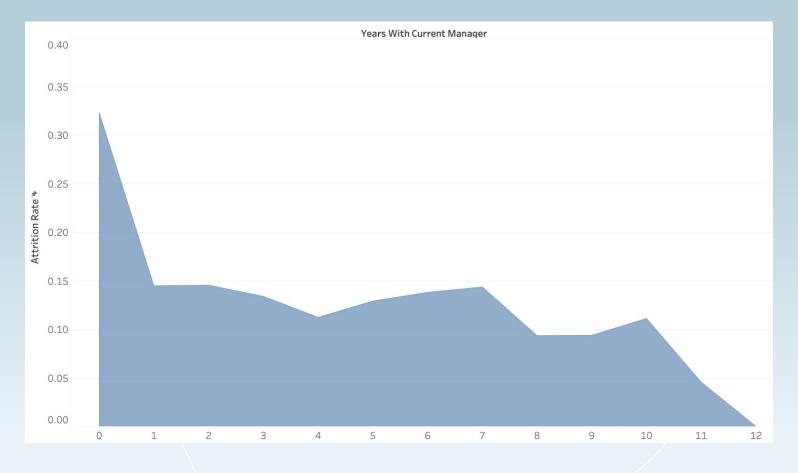
Logistic Regression Model

Strongest Features for Attrition:

- Overtime
- Years at Company
- Business Travel Frequency

Strongest Features for Retention:

- Years in Current Role
- Years with Current Manager



Attrition Rate vs Years with Current Manager

Level 3 Employees

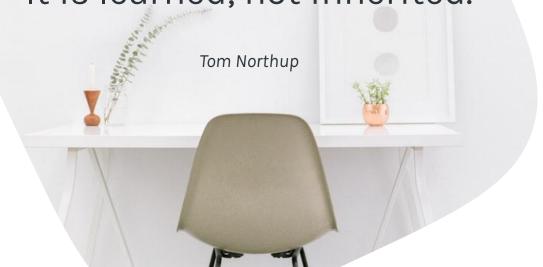
- Unexpected tendency to attrit
 68% more likely than lvls 2, 4, 5
- 5th of 5 for Environment
 Satisfaction and Job Satisfaction
- 4th of 5 for Job Engagement

- 13.5% of total attrition (32 of 237)
- 34.3% of total attrition cost
 \$5.4M of \$15.7M





No great manager or leader ever fell from heaven. It is learned, not inherited.



thank you

questions?