Disclaimer: Please note that the data is from Kaggle and is fictional. This project was completed as part of the MSDS 498 Capstone Project course within the Northwestern University - Data Science Program. All data, dashboards, and insights used throughout this project are completely simulated and not in any way connected to or a reflection of The Walt Disney Company. Please do not duplicate or distribute outside of the context of this course.







# RETENTION RISK MODEL & EMPLOYEE TURNOVER STRATEGY

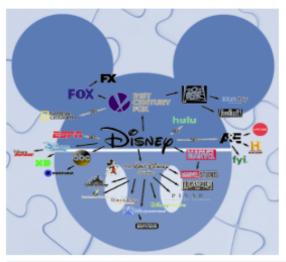
JUNE 9, 2019 ANNUAL HR SUMMIT - DAY 3

> AGNES CHENG BRENT YOUNG MARY TAYLOR MICHELLE EURE

## Business Landscape, Objectives & Business Value



## Business Landscape





 Significant organizational changes (Disney/21CF integration)



Turnover has increased



· Strong competition for top talent



Desire to use data driven approach

## Objectives



Build retention risk model





- 3) Employee segmentation *cluster analysis*
- 4) Obtain insight from model results to recommend *HR programs, policies* & *initiatives* to retain high risk employees



Create an interactive retention risk dashboard & mobile interface

#### **Business Value**

- Retain top talent by proactive identification of high flight-risk employees
- Understand predictors of voluntary turnover so it can be addressed via policy changes, etc.
- Decrease voluntary turnover
- Increase cost avoidance.
- Shift from reactive to proactive mindset













Company

ading Predictive Strategic Motivate

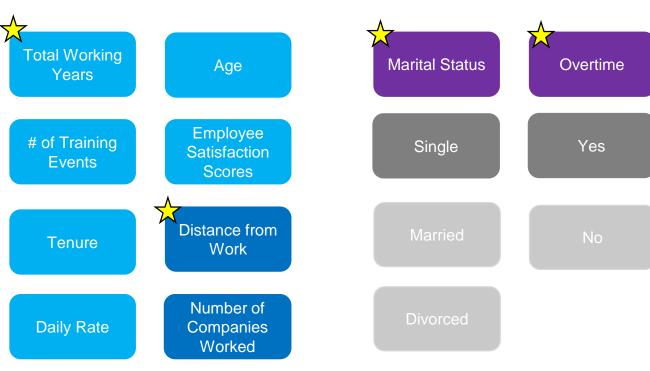
Modeling Decision Making Retain, Eng

## **Key Observations & Findings**



Below outlines the current predictors and themes of voluntary turnover in Corporate that were included in our final model. We also discovered three segments using cluster analysis: job hoppers, disengaged low performers, and engaged high performers.

## Predictors that Prompt Others to Leave



- Lower the number, the more likely an employee is to leave the company.
- **Higher** the number, the more likely an employee is to leave the company.



- Dark grey represents which group is more likely to leave the company compared to the others.
- Stars represent most predictive variables.

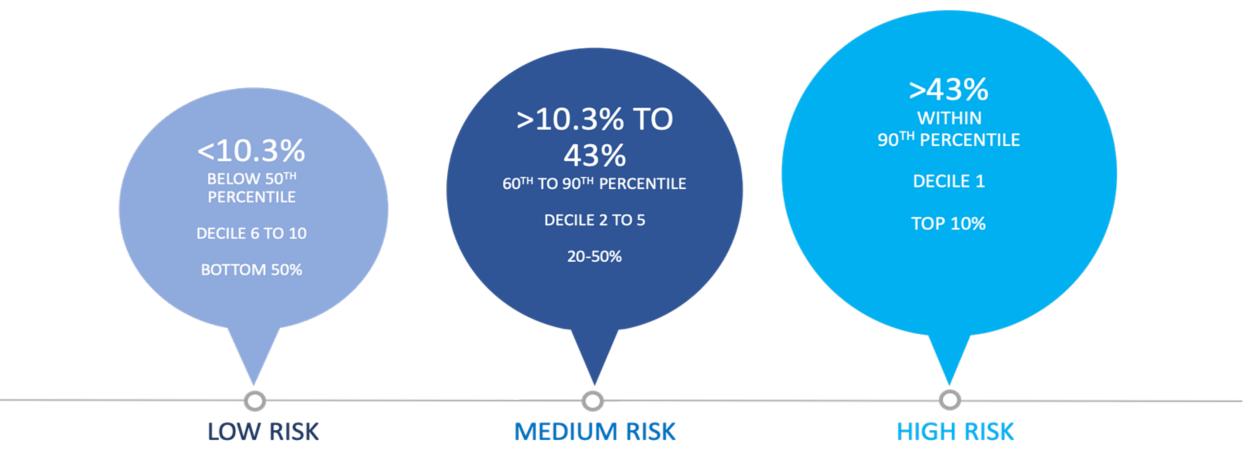
## Cluster Segments





## Retention Risk Probability Ranges

The visual below illustrates the probability ranges for low, medium, and high risk and the probability of leaving relative to the population based on our model.



Average 16.8% Voluntary Rate Turnover

## Recommendation & Implementation: Stay Survey





Survey Content

## Stay Survey will cover:

- 19 questions (5-points scale of SD-SA including 2 open ended questions)
  - Learning
  - o Pay/Compensation
  - Growth & Development Opportunities
  - o Leadership
  - Work-Life Balance

## Further Recommendations & Dashboard/Mobile Interface

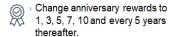


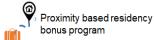


### **Programs, Policy Changes, and/or Initiatives**

#### Program



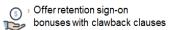




Implement mentoring programs

#### Policy

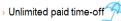








Proactively perform salary adjustment to compete with market median





Flex hours & work from home policies





Implement a stay survey to identify targeted training and development opportunities

Identify understaffed departments and increase staff through hiring or lateral transfers



Create career ladder/ lattice to provide opportunities for career progression

Job hoppers/contingent workforce strategy





Training, development, and stretch opportunities for disengaged low performers

#### **Dashboard & Mobile Interface**







