Retention and Mobilization Among Employment Equity Groups During the Pandemic























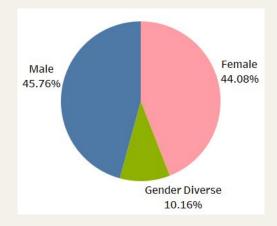


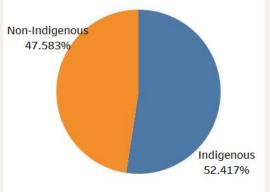
Data Manipulation

- Used 2020 data: investigate factors' influences under pandemic
- Rows with NA values were removed -- potential limitation?
- Used % of affirmative ('Agree') as measures of different questions
- Used Q53 as response variable(label):
 - o Do you intend to leave your current position in the next two years?
 - Response: Yes; No; Not sure

Percentage of People Intending to Leave

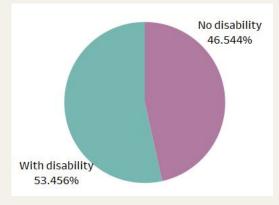
Gender Identity

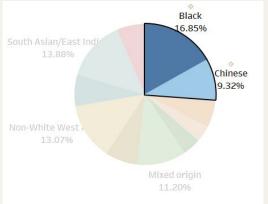




Indigenous Identity

Disability Identity





Minority Identity

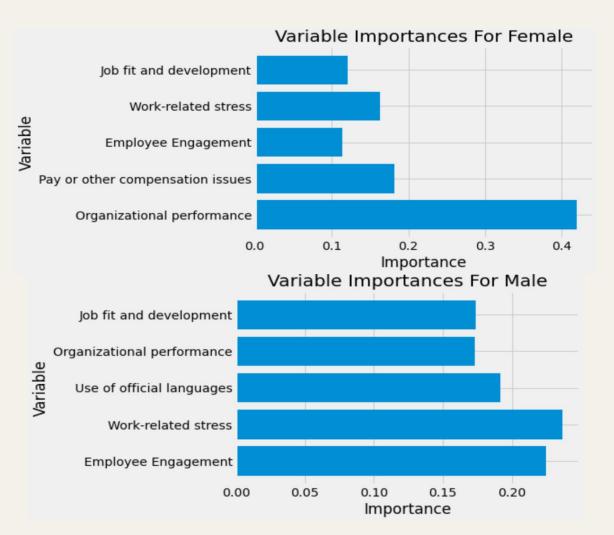
Modelling

- Random forest regression
- 4 Categories x 2 Groups = 8 Models
 - o Categories: Gender, Minority, Disability, Indigenous
 - Female vs. Male, Black and Chinese, With vs. Without Disability, Indigenous vs. Not Indigenous
- Feature: Department, Average Answer of Each Sub-indicator
- Label: Answering "Yes" for Q53
- Fit all variables → examine the top 5 most important variable → refit model by only using the top 5
 most important variable → compare accuracy, visualize the important variable

Gender

Accuracy: 84.79%

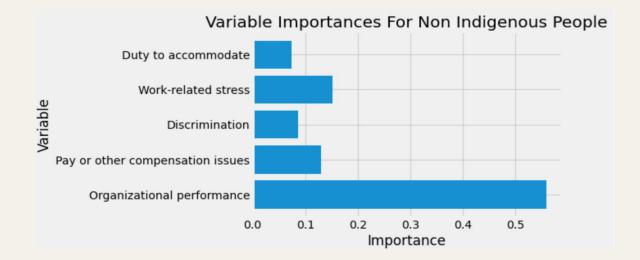
Accuracy: 68.56%



Indigenous Identity

Accuracy: 81.96%

Accuracy: 65.49%

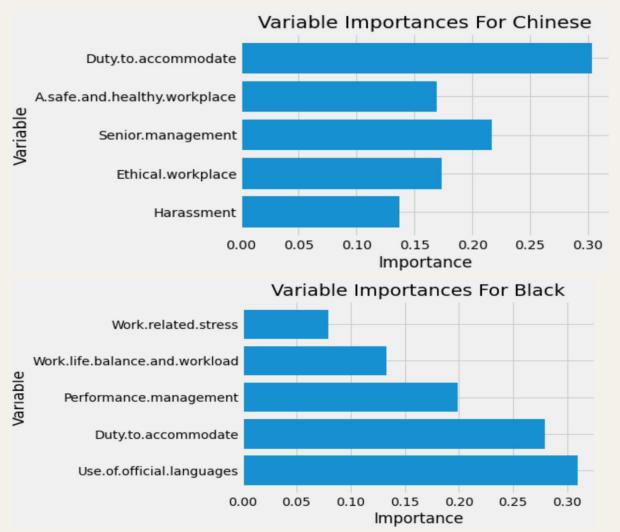




Visible Minority

Accuracy: 77.44%

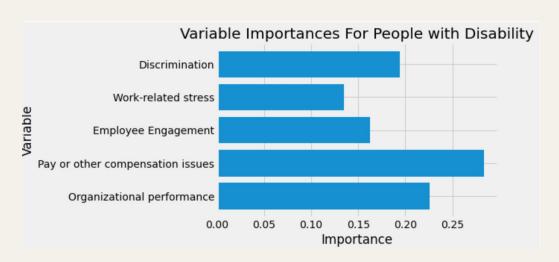
Accuracy: 81.92%

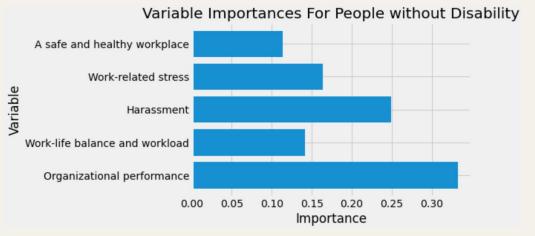


Disability

Accuracy: 72.5%

Accuracy: 87.99%





Summary & Suggestion

- EDI Initiative? An inclusive and discrimination free workplace? Potential Paying Gap?
 - **Visible Minority**: duty of accommodation is important
 - **Disability**: pay or compensation issues and discrimination
 - o **Indigenous**: pay or compensation issues
- Expectation of Organizational Performance Unmet?
 - Organizational Performance important for most groups













Thanks









