

# WhyExpat

Our Project: Buzz or Bust

Questionnaire: Data gathering

Case Studies: Neural Network and Randon Forest

**Repo:** https://github.com/jvbonini/WhyExpat\_site

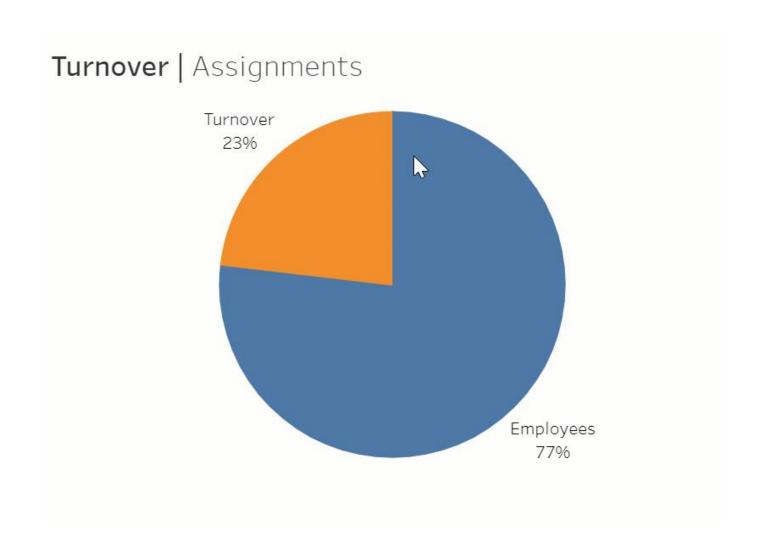
Team Members: Lei Qin | Rob Seaberg | Winnie Wu | Joao Victor Bonini

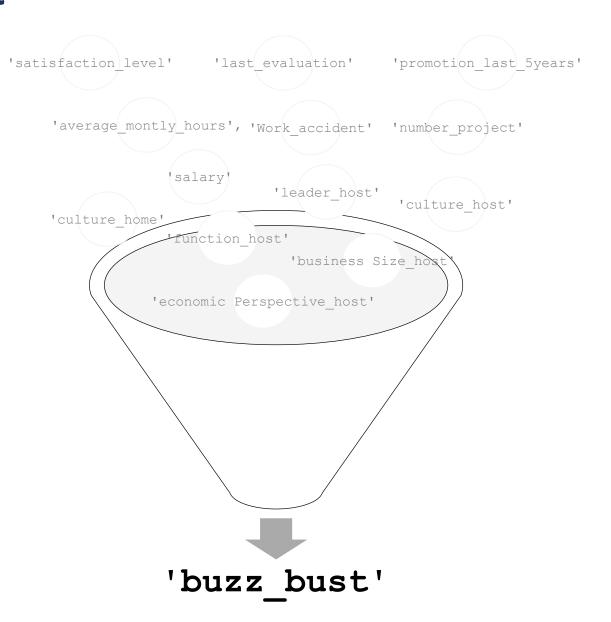


# 70 Million

# www. Why Expat.net

# **Our Project**





### **Data gathering**

# of Promotions Last 5 Years
Enter number
Salary
Enter salary
Leader Host
Enter name
Culture Home
Enter name
Culture Host
Enter name
Function Host
Enter name
Business Size Host
Enter number
Economic Perspective Host
Enter data
SUBMIT
_

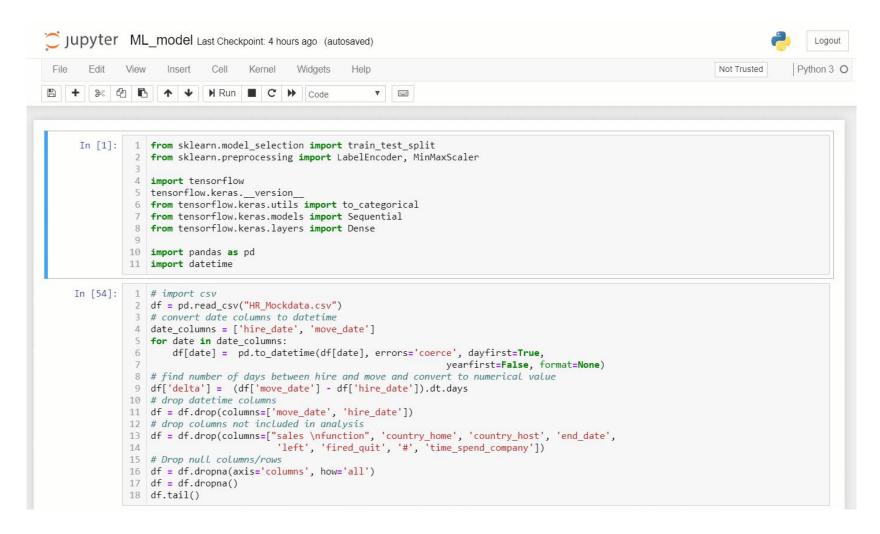
Viewers perusing the site have an opportunity to fill out the questionnaire and add to the database

Data that is collected can be used to further hone the models and give stronger predictions



#### aladat ba wasal

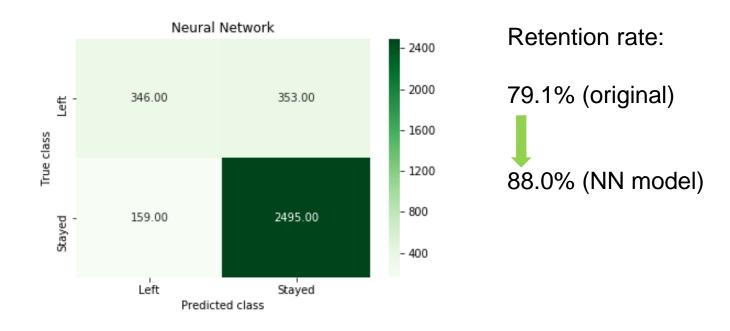
## How might be used:



### **Neural Network**

### **Neural Network**

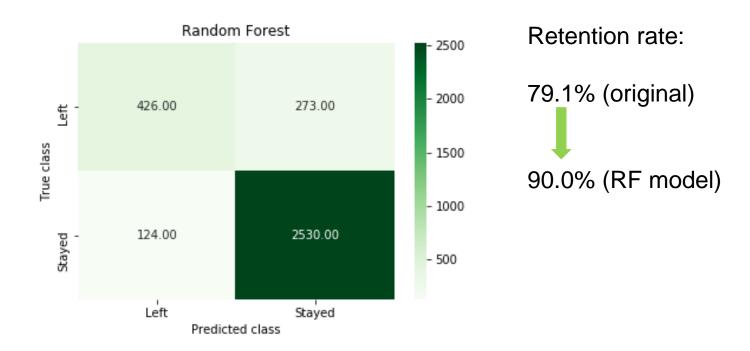
- Model accuracy: 0.847 (loss: 0.333)
- Precision:



#### **Random Forest**

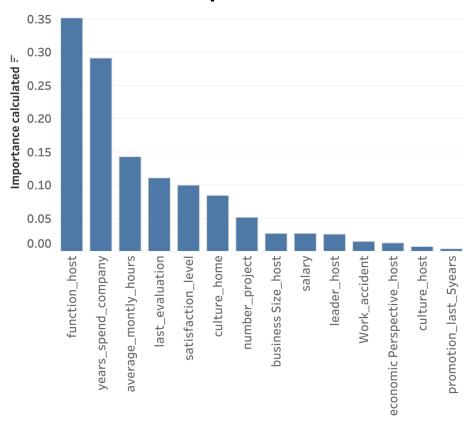
# Random Forest (Binary classification)

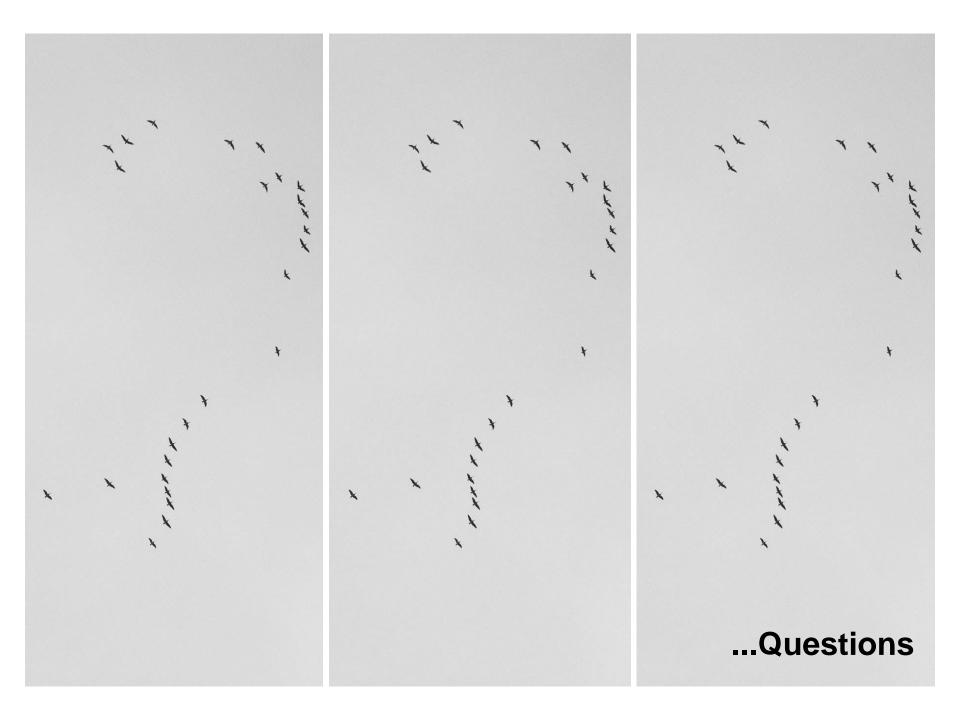
- Model accuracy: 0.853
- Precision:



### Random Forest

Feature importance







# www. Why Expat.net

