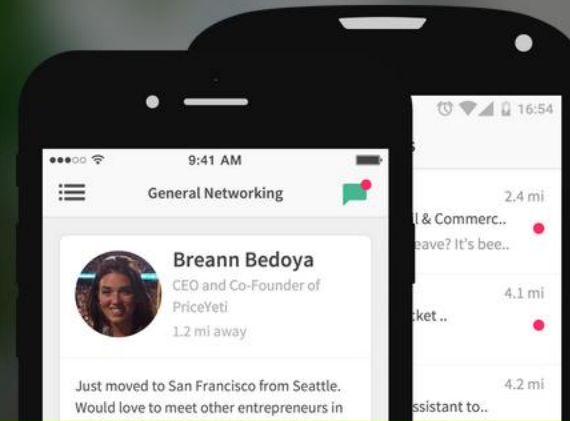




## Weave

The easiest way to expand your professional network. Your next connection is just a tap away.



*FastMatch:*

Pairing Algorithm for people to extend professional network

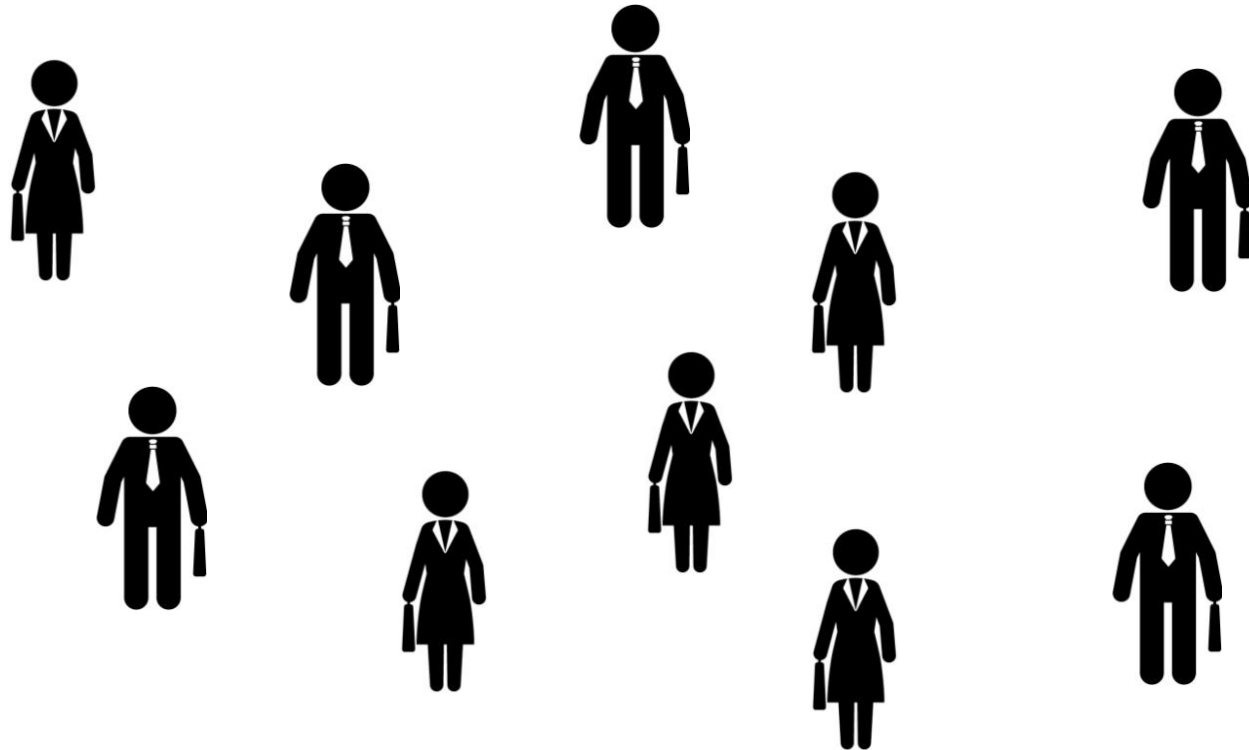
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Jiong Zhang  
Insight Data Science

# The problem

## Weave Concierge

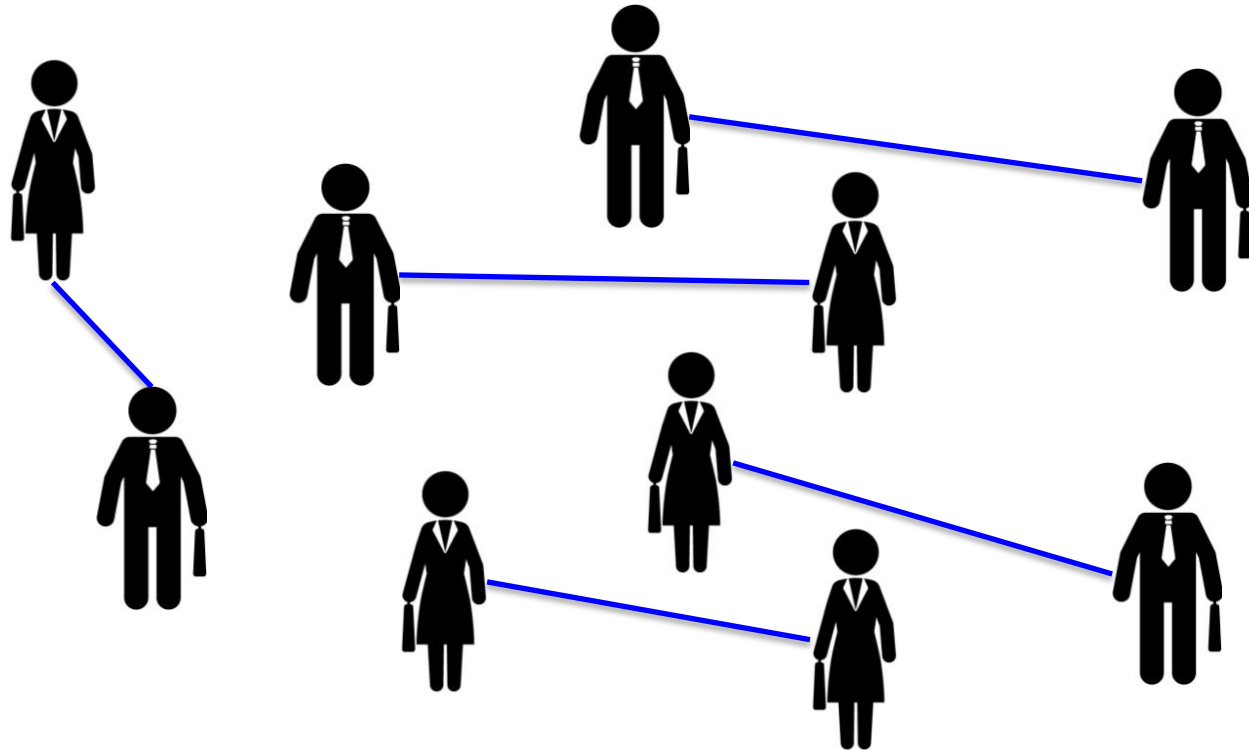
matches users for professional meetings



# The problem

## Weave Concierge

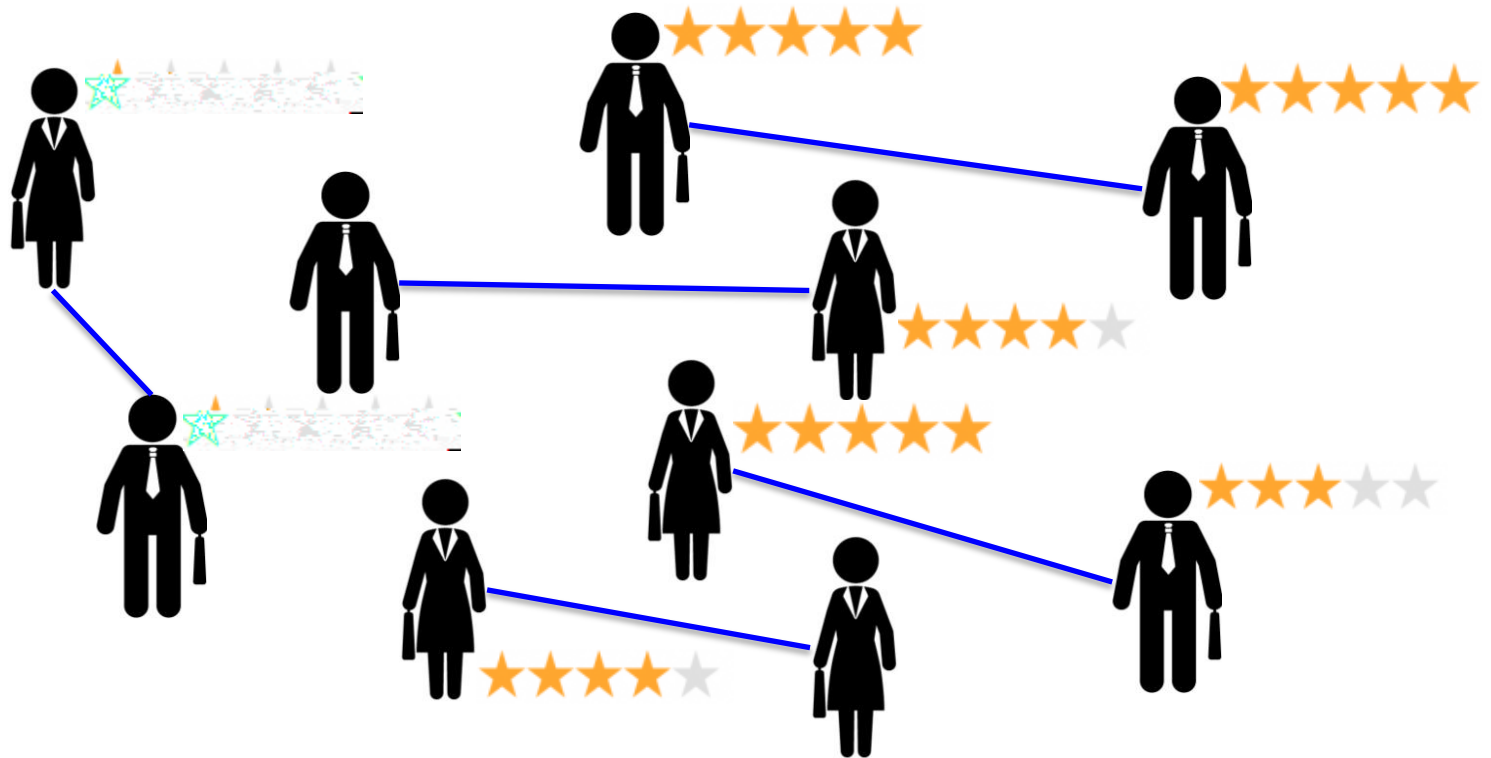
matches users for professional meetings



# The problem

## Weave Concierge

matches users for professional meetings



# The problem

## Weave Concierge

matches users for professional meetings



**Goal: Develop a Pairing Algorithm to  
Maximize a Good Meeting**

# The deliverable for Weave

*Manually matching*

good meetings: 85%



***Automated matching***

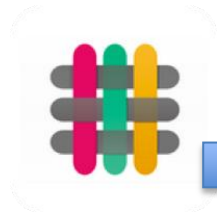
good meetings: **96%**



good meetings



# The data workflow



Weave  
database



LinkedIn  
profile

**Available  
data:**  
title,  
education,  
gender,  
looking\_for,  
meeting  
history

Feature  
calculation

labels

**Meeting  
feedbacks**  
(ratings=  
1, 2, 3, 4, 5 )



features

**Meeting  
features**  
(Combined  
user features)

# The model training and evaluation

10-fold cross-validation  
on training set

Feature selection

Model  
parameters  
optimization

Model selection  
(Random forests;  
logistic regression;  
k neighbors)

Model evaluation  
on testing set

Best model: Random forests

67% predictions obtain actual rating  
**95%** predictions obtain rating +/- 1  
RMSE: 0.75



# The insights for Weave

**Weave is implementing this algorithm**

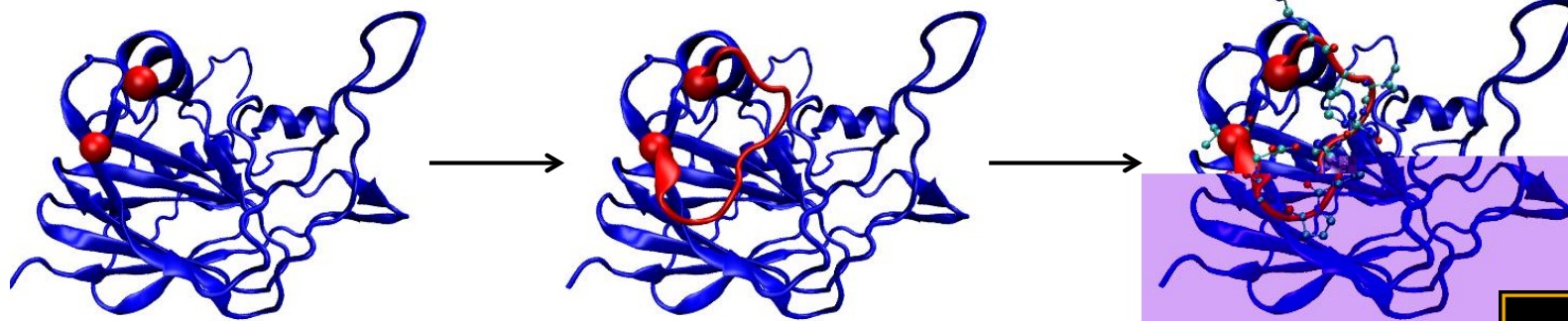
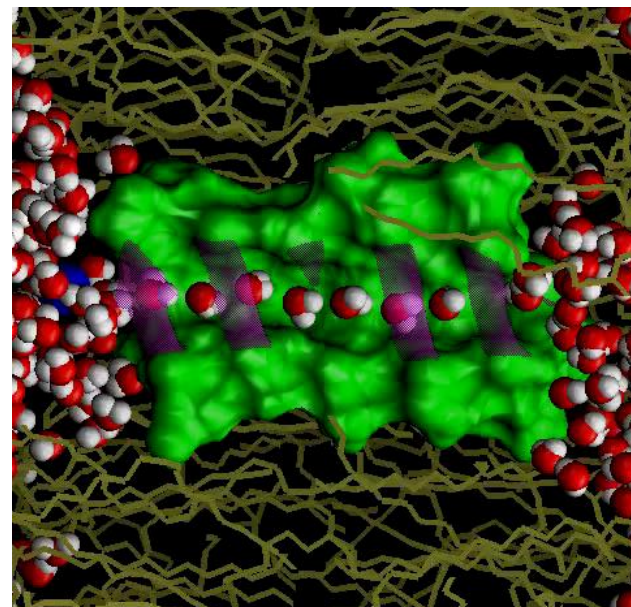
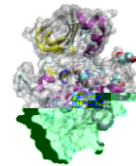


***Automated matching***  
maximizes good meetings



***Recommendation engine***  
matches people from different cities  
during their visits





Ph.D. in Theoretical and Computational Biological Physics  
Dissertation: Theoretical and computational studies on  
bio-molecular systems: structures and dynamics

