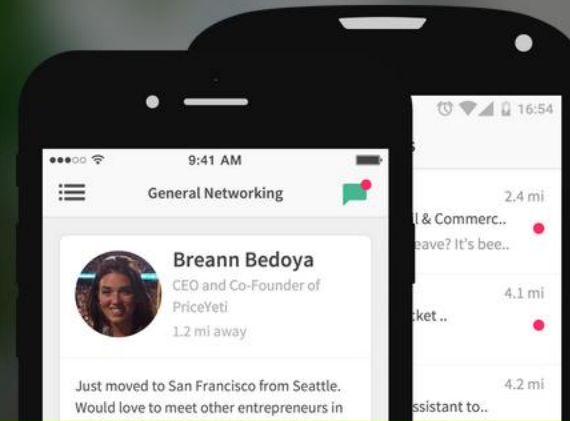




Weave

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



FastMatch:

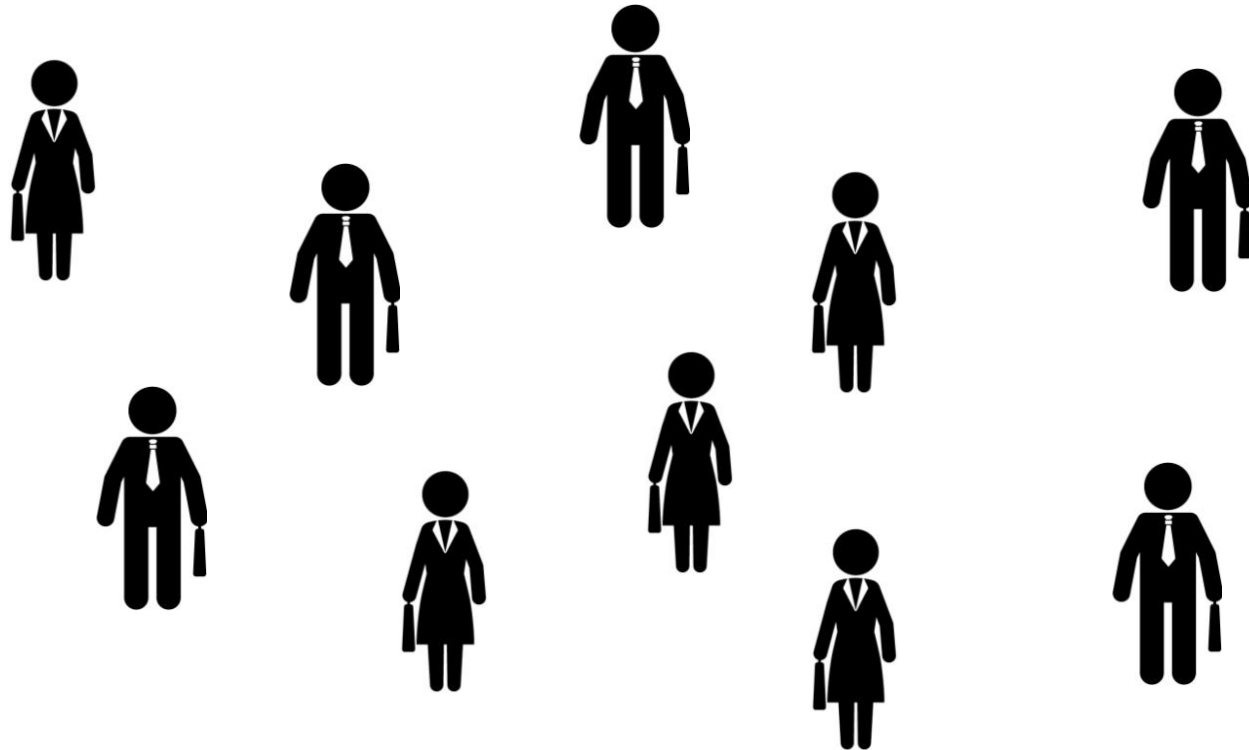
Pairing Algorithm for people to extend professional network

Jiong Zhang
Insight Data Science

The problem

Weave Concierge

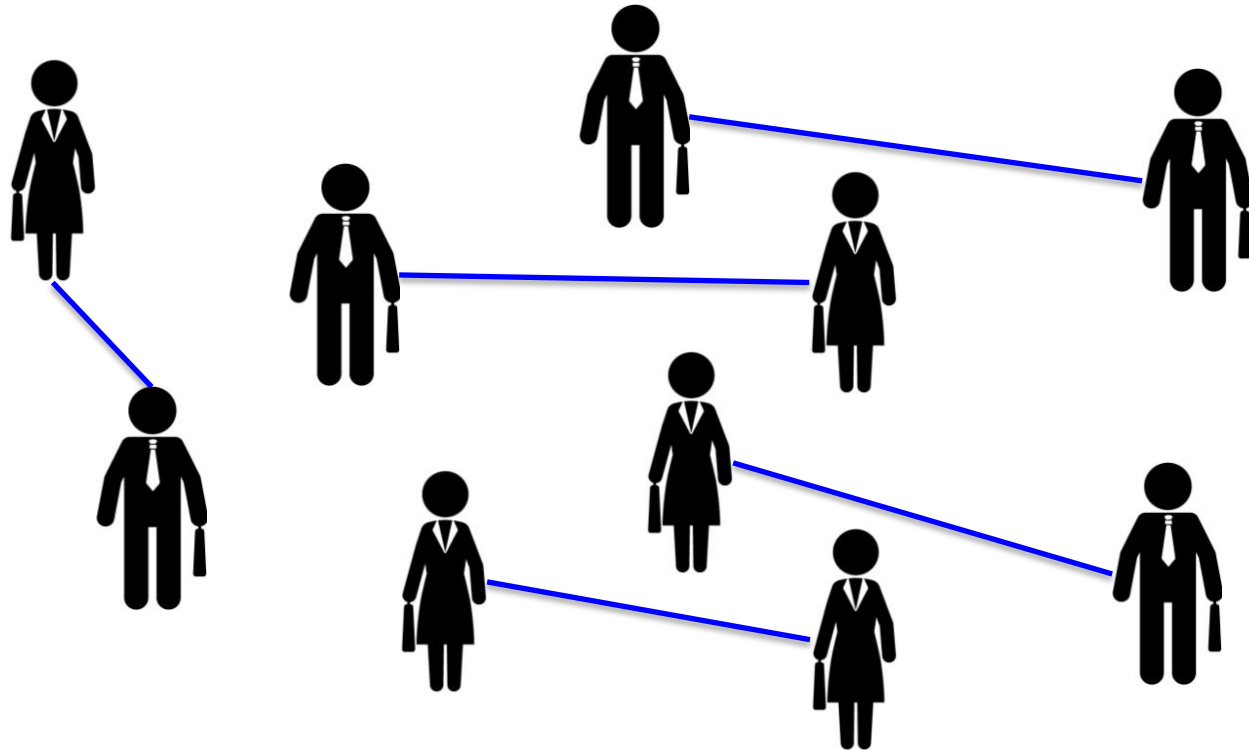
matches users for professional meetings



The problem

Weave Concierge

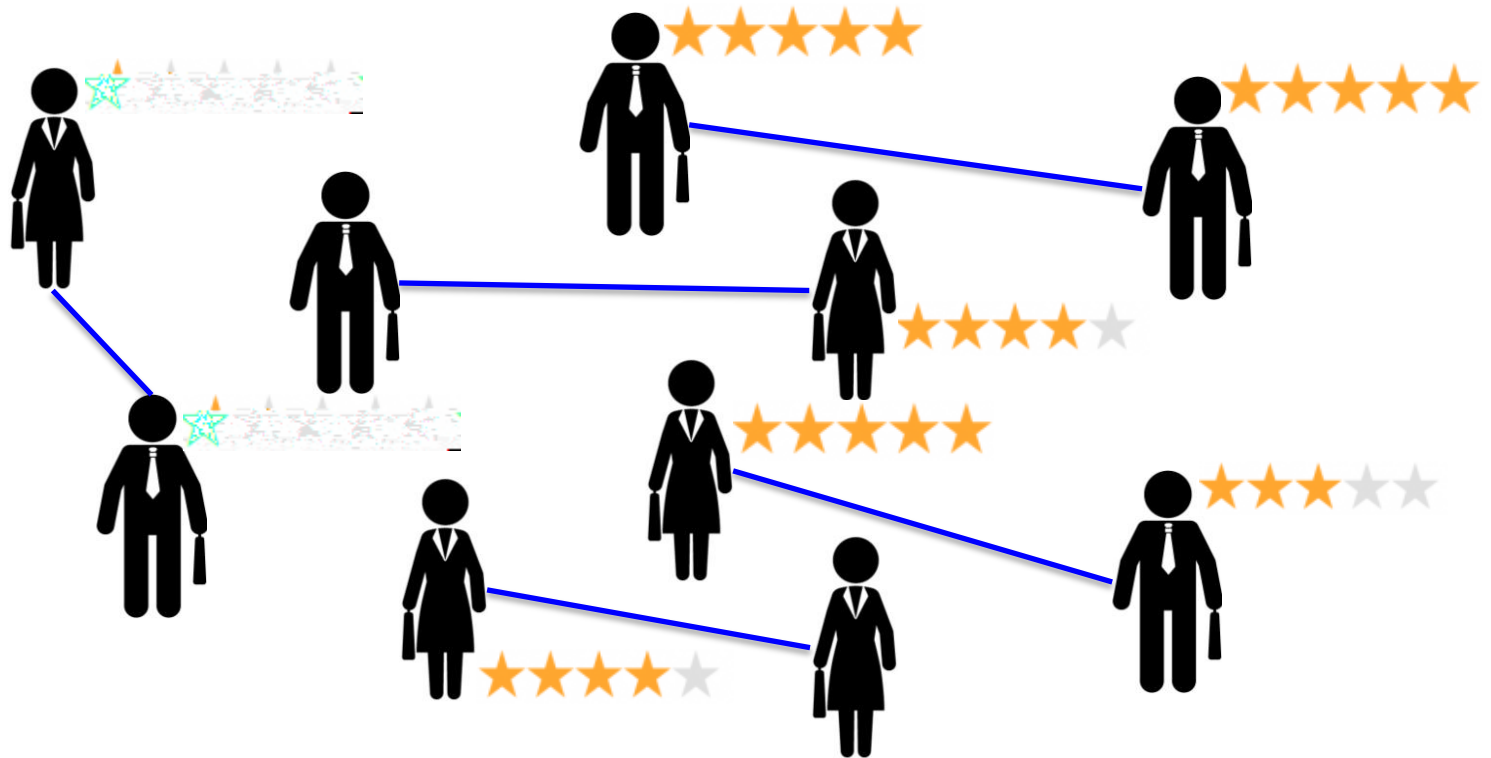
matches users for professional meetings



The problem

Weave Concierge

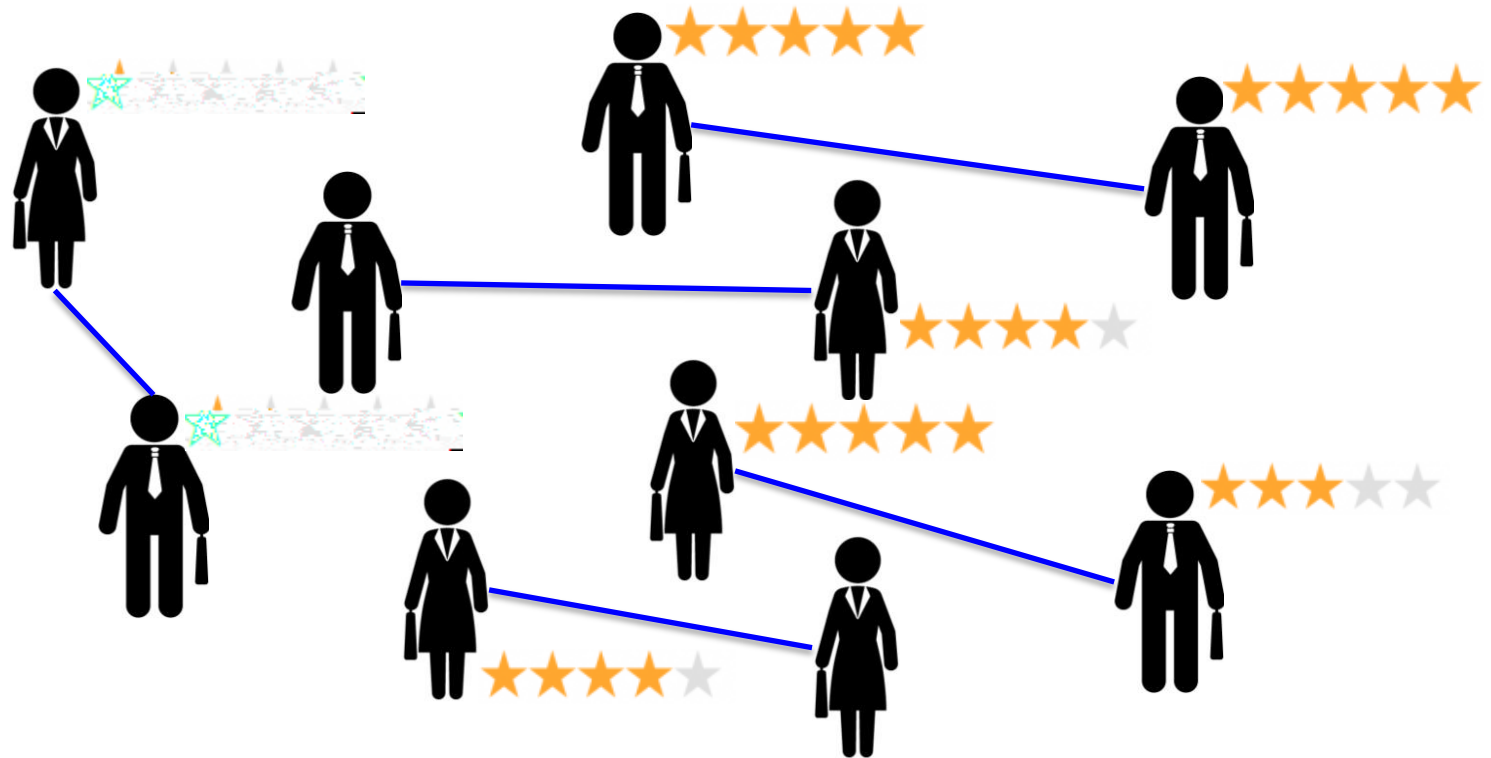
matches users for professional meetings



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

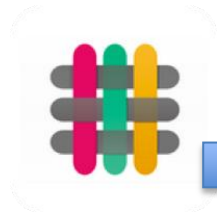
good meetings: **96%**



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

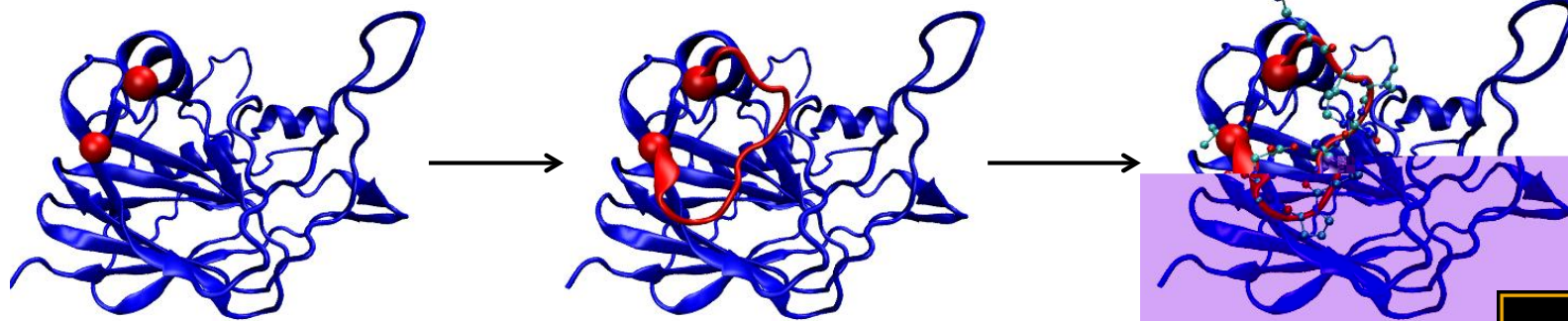
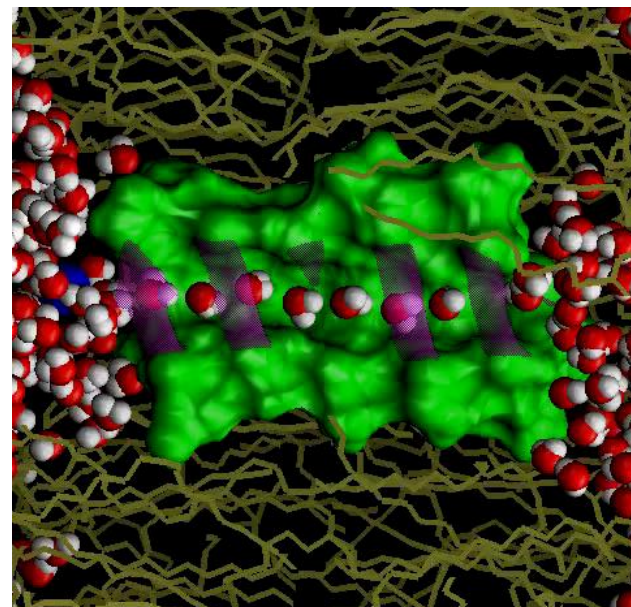
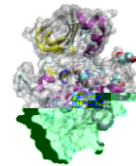


Automated matching
maximizes good meetings



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

