

PROPOSAL DEFENCE

Ranking emails by priority

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Background

Email Overload



Affects relationship(s)

Backlogs work

Causes stress

Degrades performance



Idea

Idea



Find important emails



Rank based on priority:
importance and urgency

Recipe of an “important” message

From: bar@email.address

Subject: Migration Checklist meeting

Date: December 09, 2018 3:30:58 PM NPT

Hey Foo,

I hope you this email finds you well. As we are nearing a release soon, I'd love to fix a migration checklist. Please reply me when and where works for you.

BTW, I'm leaving for the vacation next Friday. So, it'd be awesome if we could finish it this week ;) .

Best,

Bar

Recipe of an “important” message

From: bar@email.address

Social Features

Subject: Migration Checklist meeting

Date: December 09, 2018 3:30:58 PM NPT

Temporal Distribution

Hey Foo,

PROPOSE

I hope you this email finds you well. As we are nearing a release soon, I'd love to fix a migration checklist. Please reply me when and where works for you.

REQUEST

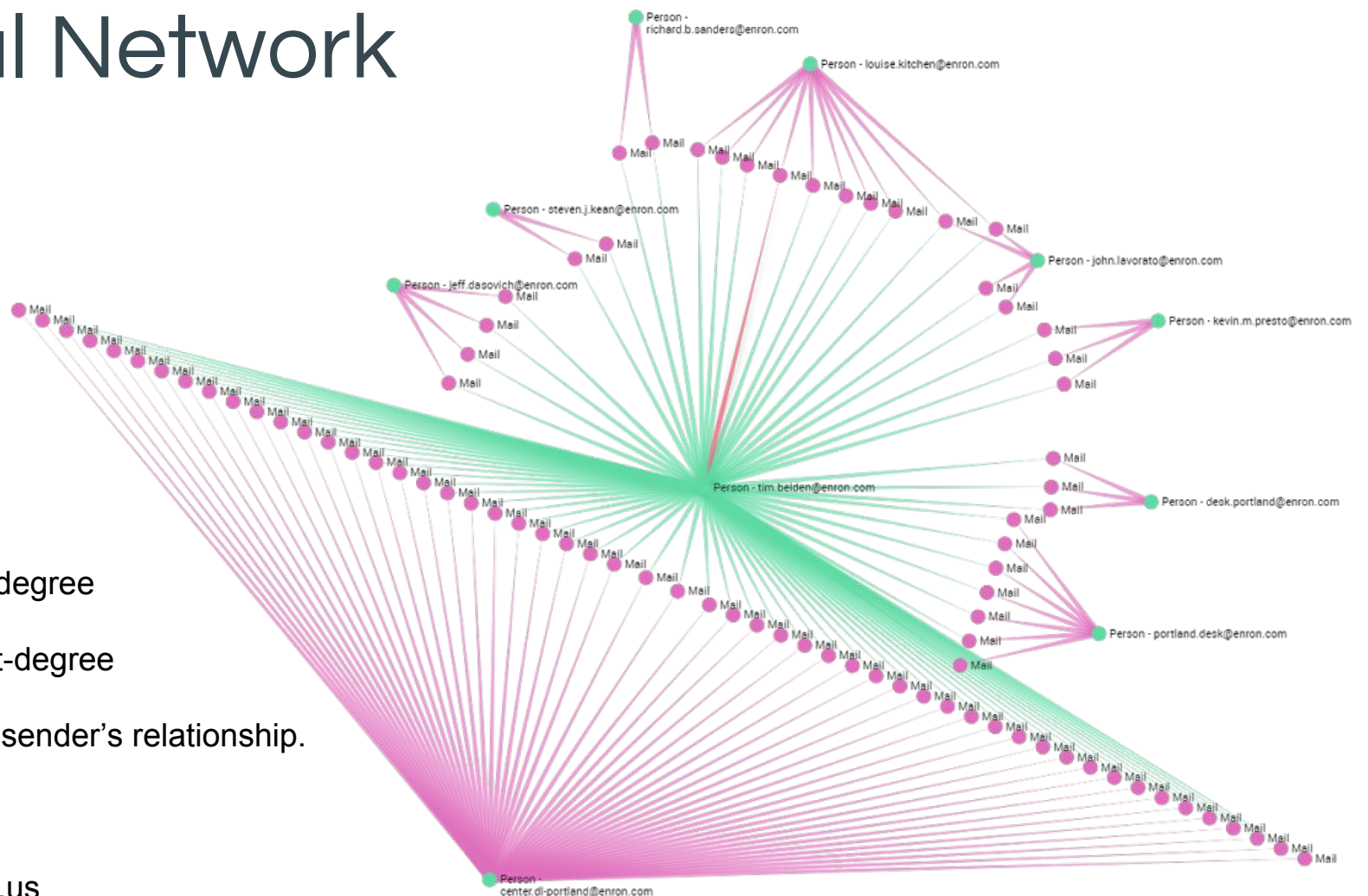
BTW, I'm leaving for the vacation next Friday. So, it'd be awesome if we could finish it this week ;).

TEMPORAL EXPR.

Best,

Bar

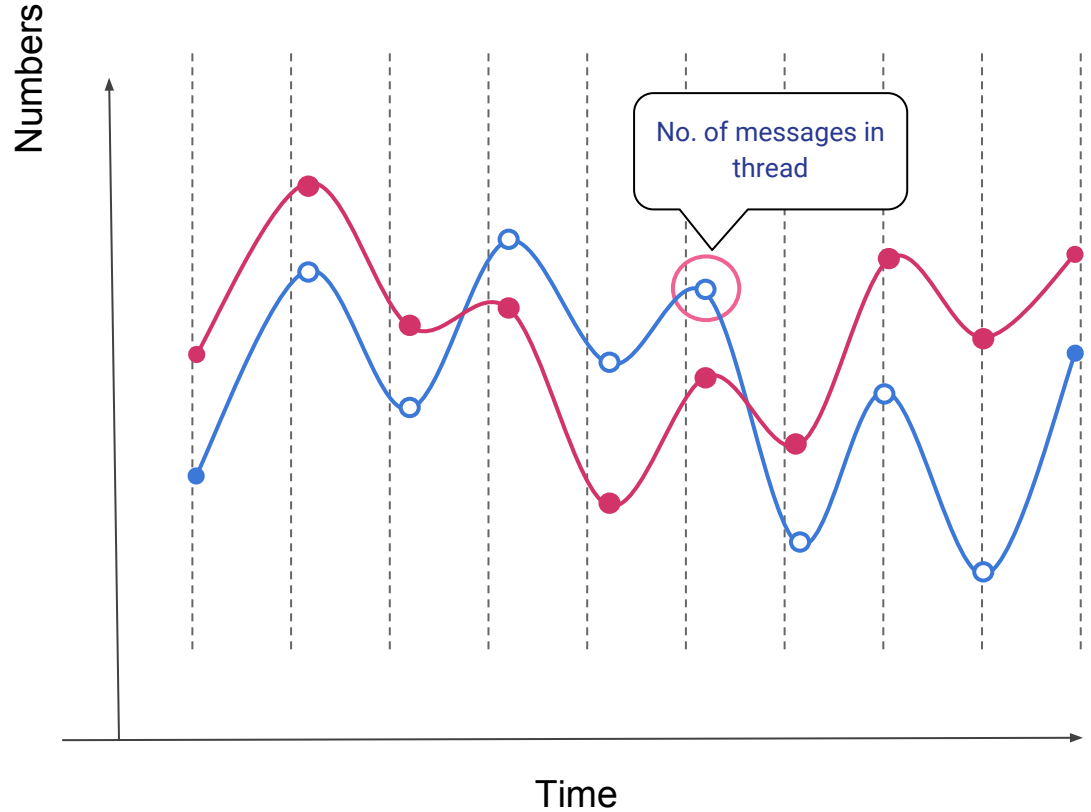
Social Network



1. Check in-degree
2. Check out-degree
3. Calculate sender's relationship.

Temporal Distribution

Distribution with respect
to time



Challenges

Limited data

Noisy data

Learning Online

Have low false +ve than false -ve

Datasets

Enron Corpus

- Collected and Prepared by CALO Project
- Data from 150 users
- Contains about 0.5M messages

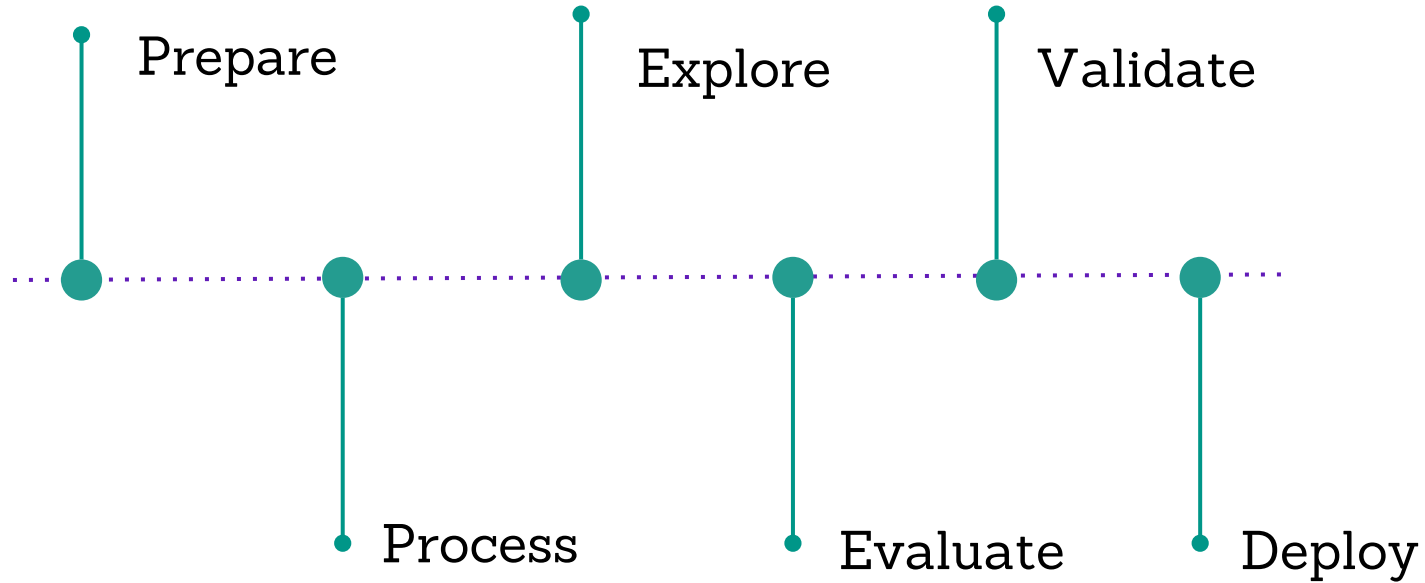
BC3 corpus

- From the W3C Corpus
- Consists of 40 email threads
- Pre-labeled sentences

Others

- Apache SpamAssassin
- Spambase Dataset
- Parakweet Email Intent Dataset

Methodology

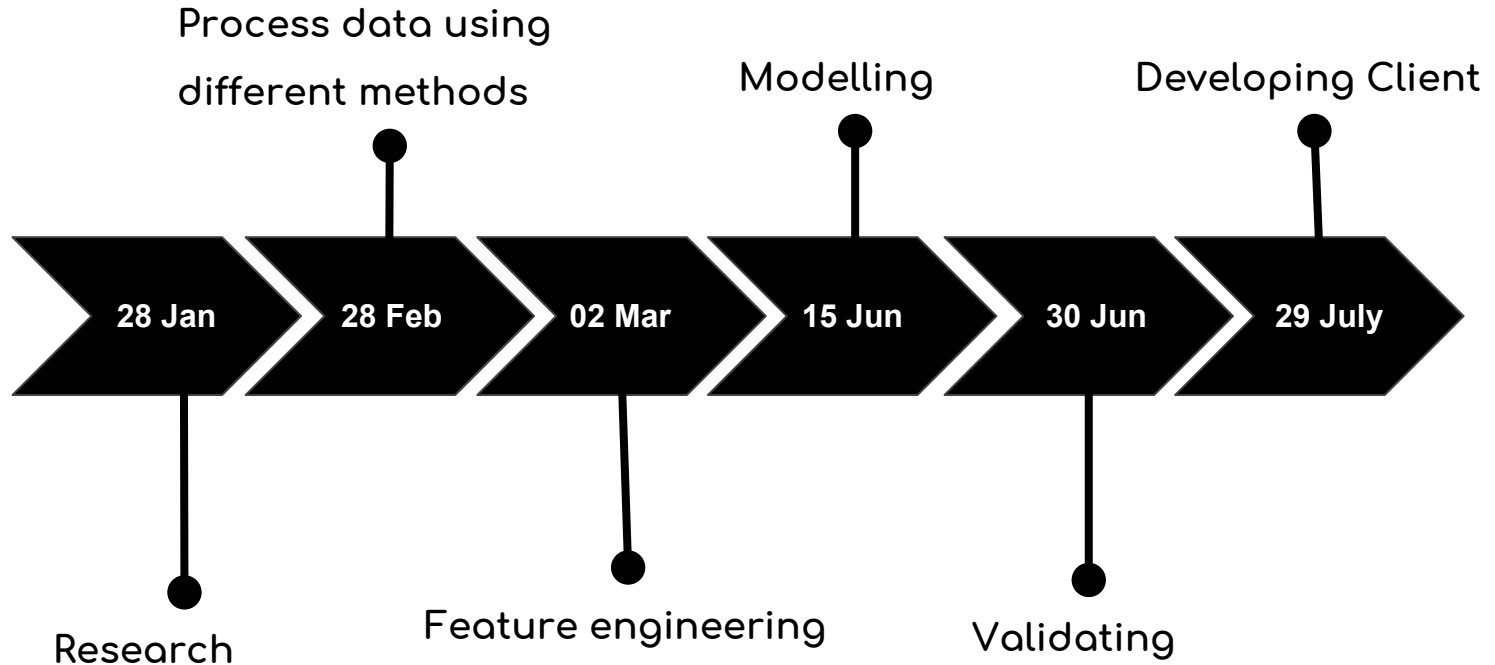


Deliverables



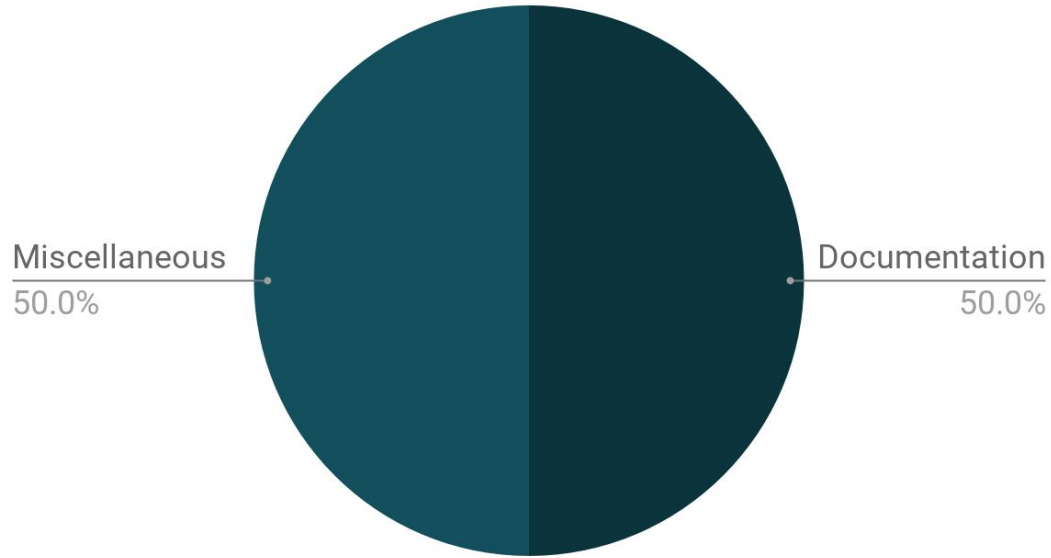
1. Email Ranking Algorithm
2. Email Server
3. Desktop Client

Timeline



Budget Expenses

Budget Allocation



Credits

1. Social Network Graph from
<https://linkurio.us/blog/investigating-the-enron-email-dataset/#!prettyPhoto>
2. Image on slide 3, 4, 12 and 13 from Freepik
3. Icons on slide 5 from Material Icon

