

Transactive Memory System

Introduction

For the TMS project, we are looking for a way to improve the experience for teams looking to analyse their chat data. The TMS project has the potential to create a unique and valuable experience for individuals looking to better understand and improve their team's communication.

The current process involves manually calculating TMS scores, which can be time-consuming and difficult to do accurately.

By implementing a user-friendly platform and fostering a strong community, we believe that this project will be successful in achieving its goals.

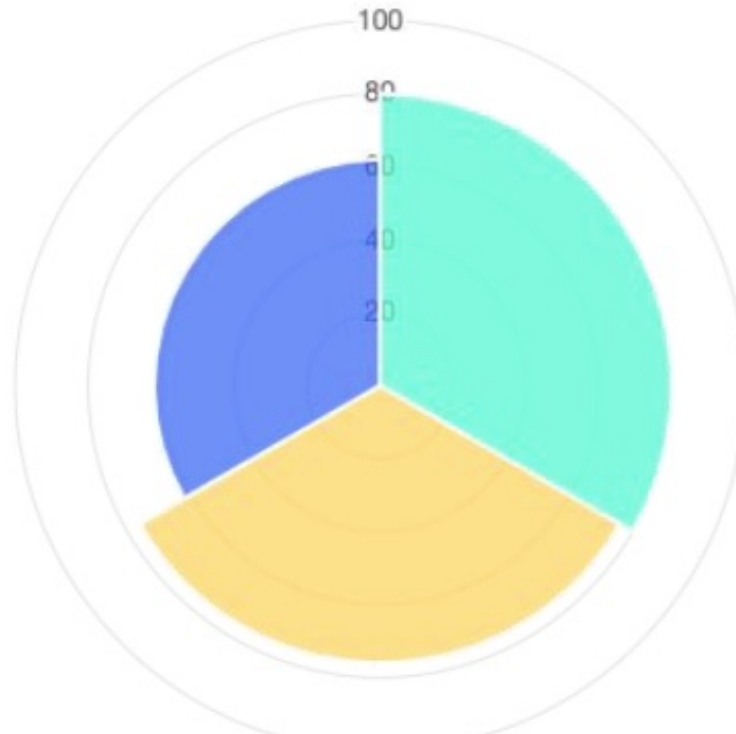
The main objective of this project is to analyse conversational data using Natural Language Processing, to calculate the transactive Memory System (TMS) score based on existing methodologies.

By using Natural Language Processing and AI, we can automate this process and provide teams with more accurate and timely feedback. The project is in its beginning stages, and you can help us driving it forward!

Example survey: Total TMS

Your TMS score is: 73%

credibility specialization coordination



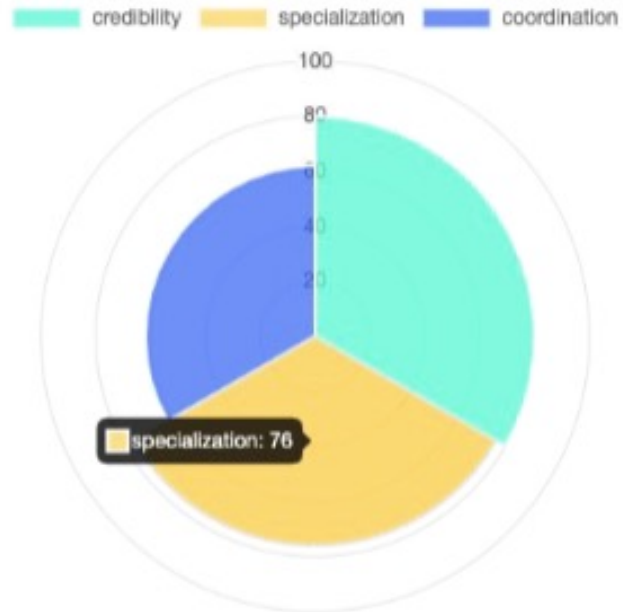
General remarks:

We've got 10 answers from the team.

The overall TMS score is at 73%, which is a fair score for a team to be at, meaning it has already a lot of positive habits implemented, though there's quite some room for improvements, especially in the Coordination section.

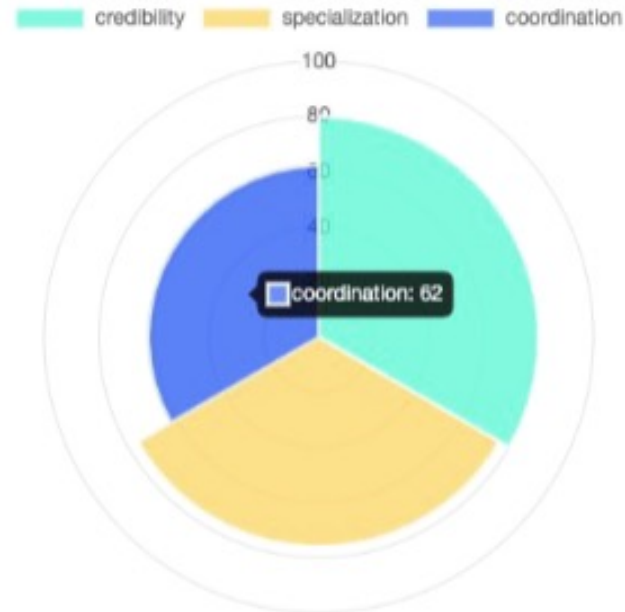
Example Survey: The 3 TMS categories

Your TMS score is: 73%



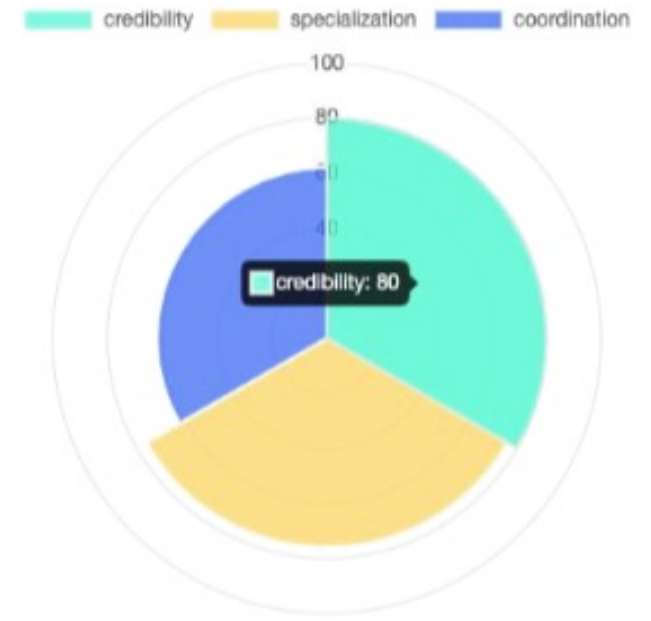
The team has a high Specialization score, which means that each team member has distinct knowledge and an expert of their own domain and sees the value in each others expertise.

Your TMS score is: 73%



The team has an average to low score in the Coordination section, which means that the team is not sharing knowledge efficiently, nor has the right processes in place to scale further.

Your TMS score is: 73%



The team has a pretty high score compared to benchmark in the Credibility section, which means that team trusts each other's knowledge and considers it reliable.

ROUTES

Based on your preferences, you can decide yourself how you want to shape this project. A couple of different things would be useful

1. A user-friendly dashboard to view TMS scores and chat data (making a slack app that allows for easy data collection, and display of TMS score)
 - This should be provider agnostic
 - Concrete deliverables:
 - Slack app with which the TMS score can be assessed
 - Slack app which analyses messaging behaviour of public channels once installed
 - Automatic identification of key communication patterns and behaviours
2. To collect messaging data from team communication channels and prepare this data in such a way that it can be used in a neural network
 - Caveat: there is not a lot of data yet, so you might have to get creative in how to collect the data
 - Concrete deliverables: A neural network which predicts a team's TMS score based on (slack) messaging data
 - This can be a first attempt at doing such an analysis and does not need to be a final product!
3. Suggestions for improving communication and collaboration based on TMS scores

Timeline

- Weeks 1 & 2: Planning, requirements gathering and research
- Weeks 3 - 8: Project development, iteration and testing
- Weeks 9 & 10: Reporting and Final presentation

Resources

- https://drive.google.com/drive/folders/1g_jcHpgjtO4DbpHprVthLvCLTJEvfKQ?usp=sharing