



STORYTIME WITH
SNEHA

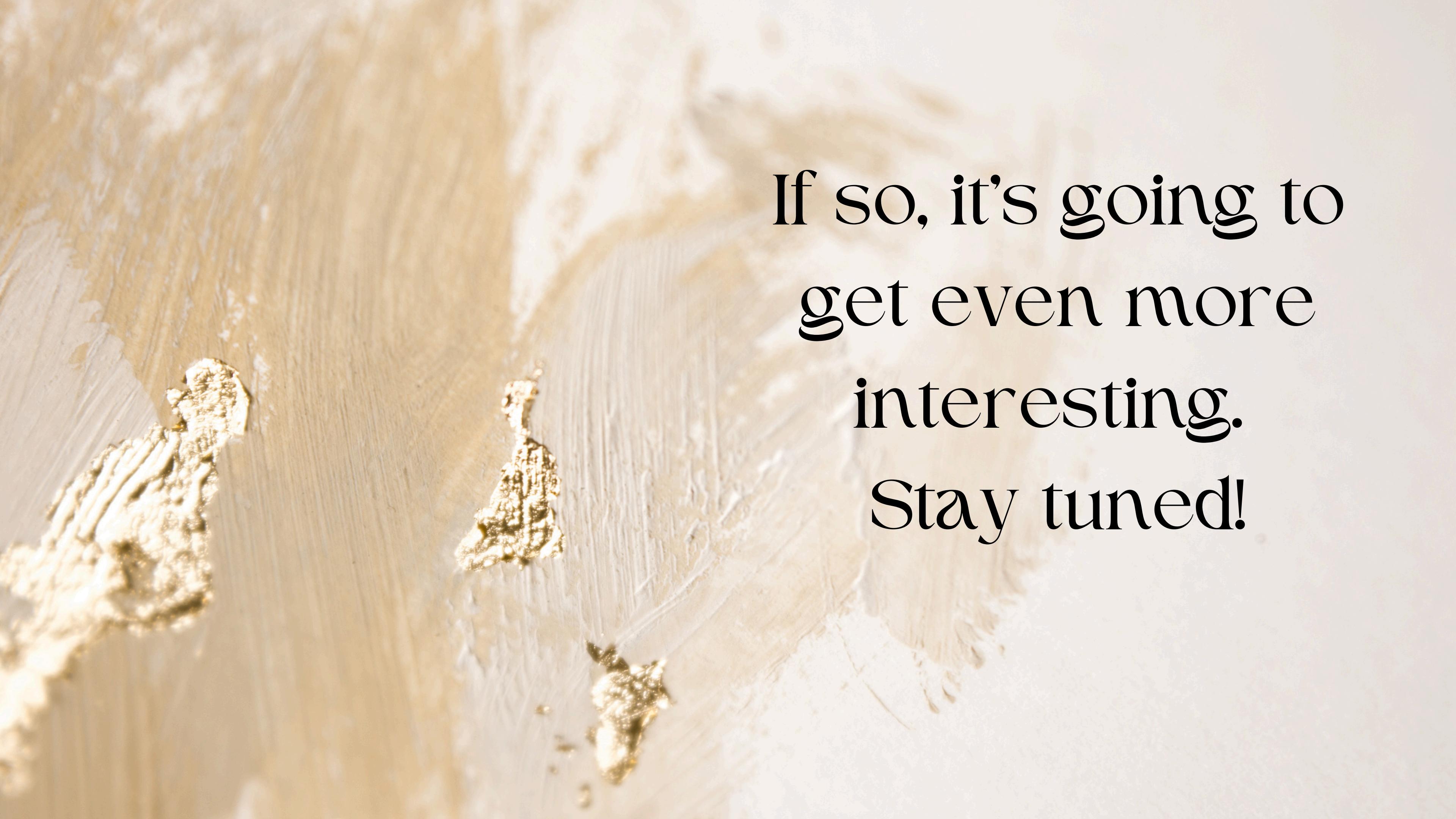


Do you enjoy
watching movies
or tv series??



Is your favorite included in the
list?

- *Harry Potter*
- *Interstellar*
- *The Dark Knight*
- *Avengers ; Endgame*
- *Breaking Bad*
- *Game of Thrones*



If so, it's going to
get even more
interesting.
Stay tuned!

Today's Story
is all about the most
famous TV series
“Game of Thrones”
Winter is truly coming!



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Who is your absolute favorite character in Game of Thrones?



My Favourite Arya Stark



Motivation

Curiosity about Arya Stark's journey led to key questions:

Did she ever become a *Queen*?

How many *battles* did she fight in?

What was her ultimate *fate*?

Beyond Arya's story, Game of Thrones presents a complex web of power struggles

Why is this research interesting?

1. *Power shifts* in Game of Thrones mirror *real-world politics and leadership struggles*.
2. Understanding *character influence* through network and sentiment analysis provides quantifiable *insights* into storytelling.

Problem Statement

"Can we analyze the evolution of *power dynamics* in
Game of Thrones based on the character networks
and dialogue?"

Relevant Literature

1. “An Analysis of ***Power Dynamics*** in Leigh Bardugo’s Six of Crows (2015)” by *Nadia, Safrina*.
2. “Extraction and Analysis of Fictional ***Character Networks***: A Survey” by *Vincent, Xavier*.
3. “***Character Interaction Network Analysis*** of Chinese Literary Work- A Preliminary Study” by *Bikun CHEN, Yuefen WANG*
4. “Movie prediction based on movie scripts using ***Natural Language Processing*** and Machine Learning Algorithms” by *Bhargav ,Govardhan*

Dataset

Game_of_Thrones_Script.csv – downloaded from **KAGGLE.COM**

Game_of_Thrones_Script.csv (2.93 MB) ⤓ ⋮ >

Detail Compact Column 6 of 6 columns ▾

Release D...	Season	Episode	Episode Ti...	Name	Sentence
2011-04-17	Season 1	Episode 1	Winter is Coming	waymar royce	What do you expect? They're savages. One lot steals a goat from another lot and before you know it, ...
2011-04-17	Season 1	Episode 1	Winter is Coming	will	I've never seen wildlings do a thing like this. I've never seen a thing like this, not ever in my li...

Data Preparation

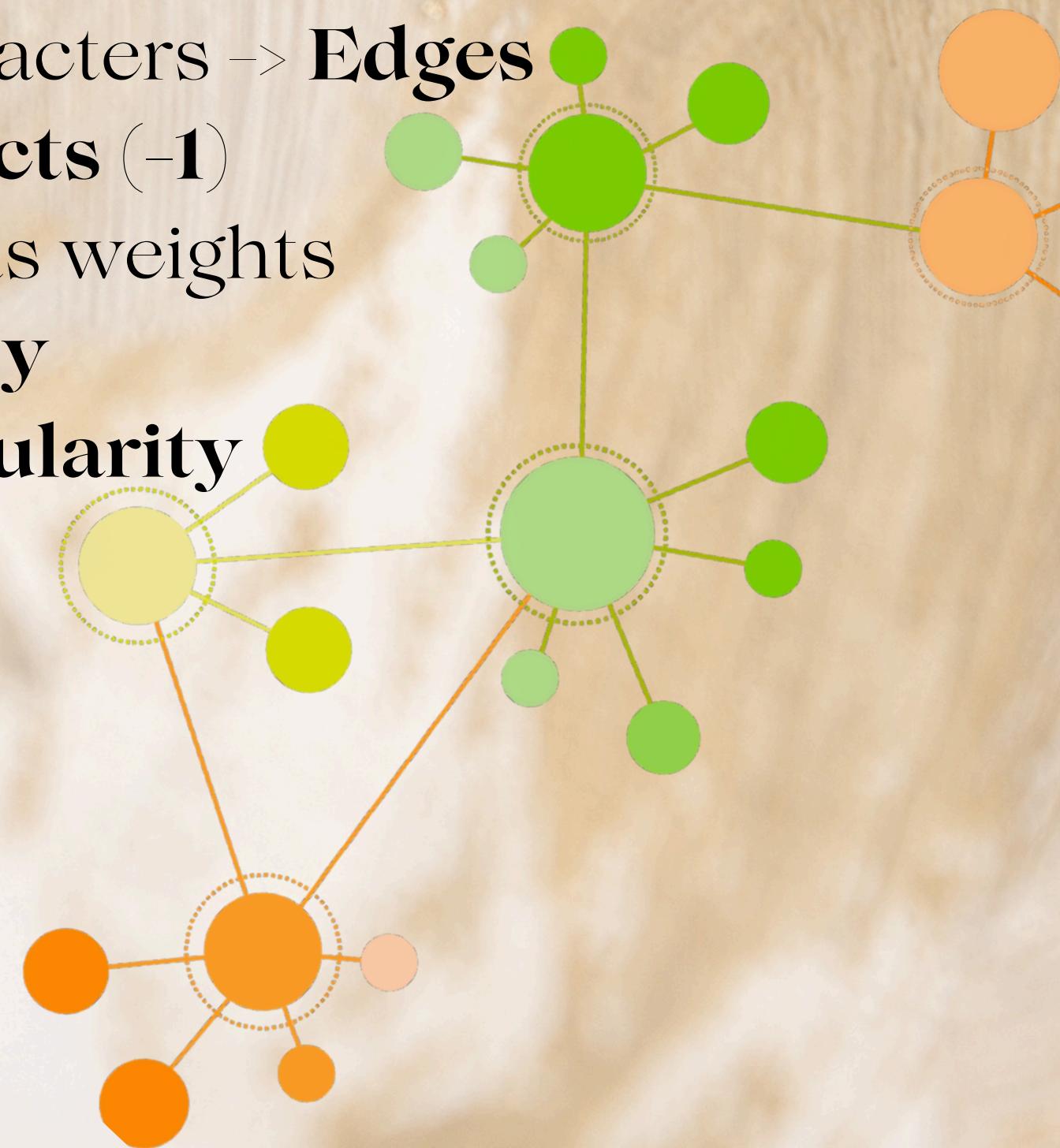
With the raw script data, following details are extracted to make it suitable for network and text analysis

- **Speaker** : *Character who says the dialogue*
- **Listener** : *Character who listens to the dialogue*
- **Interaction** : *Dialogue or action between characters in a scene*
- **Interaction Type** : *Normal / Friendly / Conflict*
- **Interaction Score** : *1 (Normal/Friendly/Ally) / -1 (Conflict, Fight, Battle)*
- **Interaction Result** : *Win/Loss (In case of conflict)*

Analysis Plan – Part1

Network Analysis:

- Character -> **Nodes** / Interaction between characters -> **Edges**
- Filtering of Character **Interactions with conflicts** (-1)
- Creation of **character network** with conflicts as weights
- Analyzing **importance** of characters -**Centrality**
- Grouping of nodes based on interactions **modularity**



Analysis Plan – Part2

Text Analysis:

- Input : Dialogues between characters
 - Cleansing of Data for stop words and unnecessary symbols
 - Usage of Topic Modeling / **N-grams** / bag of words
 - finding out **words spoken** by characters and its **frequency**
 - **Analyzing sentiments** in the character interactions



Expected Outcomes

By combining network and text analysis, we aim to

- Analyze the *shifting power dynamics* among characters over time.
- Determine *character influence* using metrics like Centrality and Modularity.
- Identify the *sentiments and emotional tones of characters* in positions of power.

Challenges

- ⚠️ *Extracting conflict interactions is manual-intensive.*
- ⚠️ *Research on power dynamics is relatively unexplored.*

Application

This study framework can be extended to real-world power dynamics, such as:
Political leaders ↳ Analyzing their speeches & interactions over time.
Corporate leadership ↳ Studying communication networks within companies.



Thank You