

TESLA MODEL 3 REVIEW

INTRODUCTION

Tesla has significantly impacted the automotive industry by popularizing electric vehicles and advocating for sustainable energy solutions



Significance of study

1

Sentiment Analysis

2

Social Network Analysis

3

Semantic Network

2

METHODOLOGY

Data Extraction

from 'Tesla Model 3' YouTube Comments



Raw data

Self-Loop Creation for Blank "To" Entries

Data Preparation

Sentiment Analysis

Remove duplicates

Handling Missing Values

Text Pre-processing

Social Network Analysis

Merging Duplicate Edges

Managing Self-loops

Edge Filtering and Customization

Grouping using Clauset-Newman-Moore (CNM)

Lay out each in box

Calculate Graph Metrics

Label Key Influencer

Degree Centrality sort descending

Directed Network

Semantic Network

Calculate Word and Word Pair Metrics

Edge Filtering and Customization

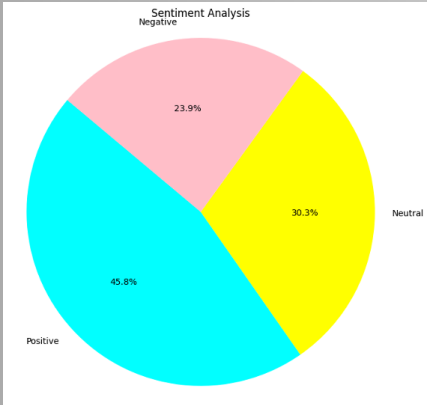
Grouping using Clauset-Newman-Moore (CNM)

Lay out each in box

3

RESULT

Sentiment Analysis



Positive Sentiment : 45.8%

- highlights user satisfaction

"love." "good." "great." "fun."

Neutral Sentiment: 30.3%

- balanced view: features & practical aspect

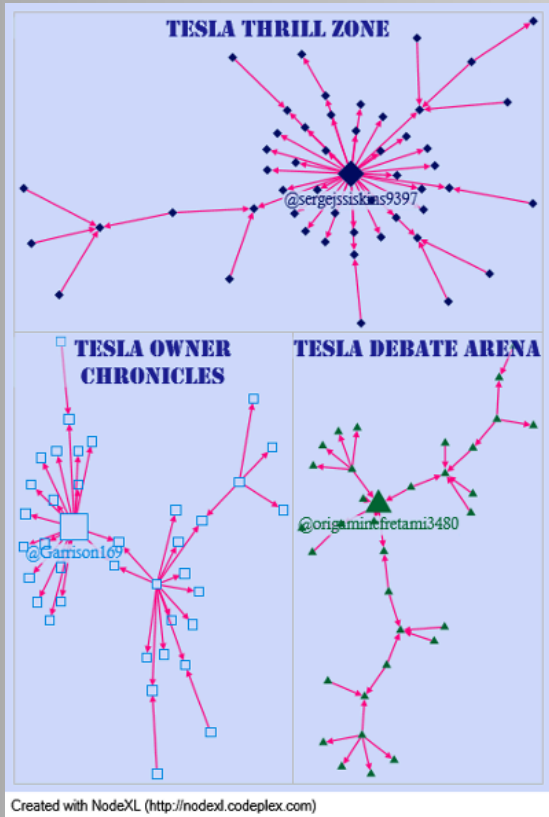
"model." "screen." "button"

Negative Sentiment: 23.9%

- concerns and dissatisfaction among users

"boring." "hate." "stupid." "ugly"

Social Network



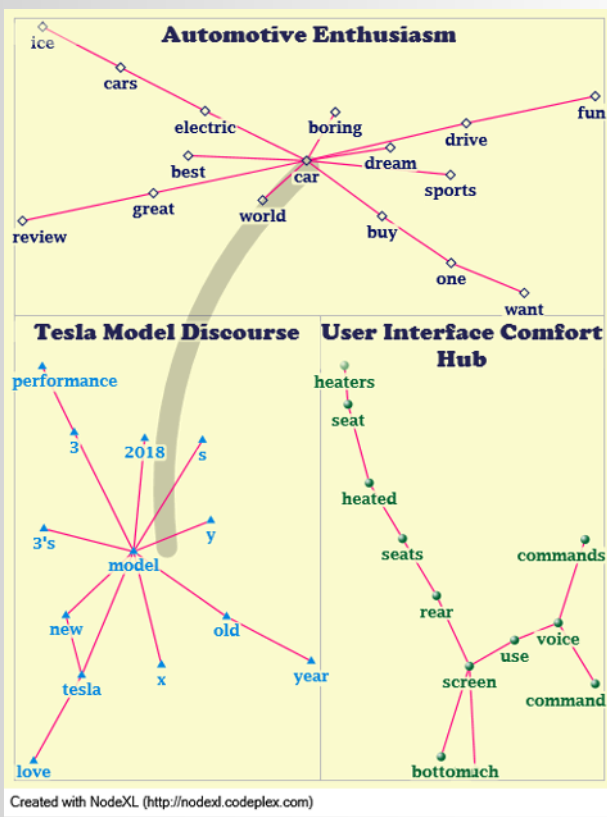
Analyzing the social network graph entails scrutinizing its structure and the interactions it depicts.

Cluster 1: Tesla Thrill Zone

Cluster 2: Tesla Owner Chronicles

Cluster 3: Tesla Debate Arena

Semantic Network



Semantic Network generated using NodeXL reveals intriguing insights into the textual data.

Cluster 1: Automotive Enthusiasm

Cluster 2: Tesla Model Discourse

Cluster 3: User Interface and Comfort Hub

4

CONCLUSION

3 important findings

1. Most comments are positive, praising the Model 3's technology, performance, and affordability.
2. Social network analysis identified key influencers and distinct user clusters help Tesla leverage influential voices.
3. Semantic analysis provided insights into the prevalent themes.

Challenges faced

1. Volatile Trends Changing Rapidly
2. Data Volume Constraints
3. Ensuring Data Quality
4. Sentiment Analysis Complexity
5. Processing Delays

