



Texas Freeze

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Introduction

- Texas Freeze - Texas recording the lowest temperatures after around 70 years in 2021.
- Great Texas Freeze killed nearly 3 times more people than hurricane harvey
- Is Texas power grid ready for the next great freeze?
- Despite not being the nation's coldest outbreak, the cold wave became the costliest winter storm event on record in the U.S

Data Overview

Description

Large network of Texan
Tweets about 2023 winter
storm

Nodes

Anyone who has tweeted
using #TexasFreeze

Edges

Followers with mutual
relationship

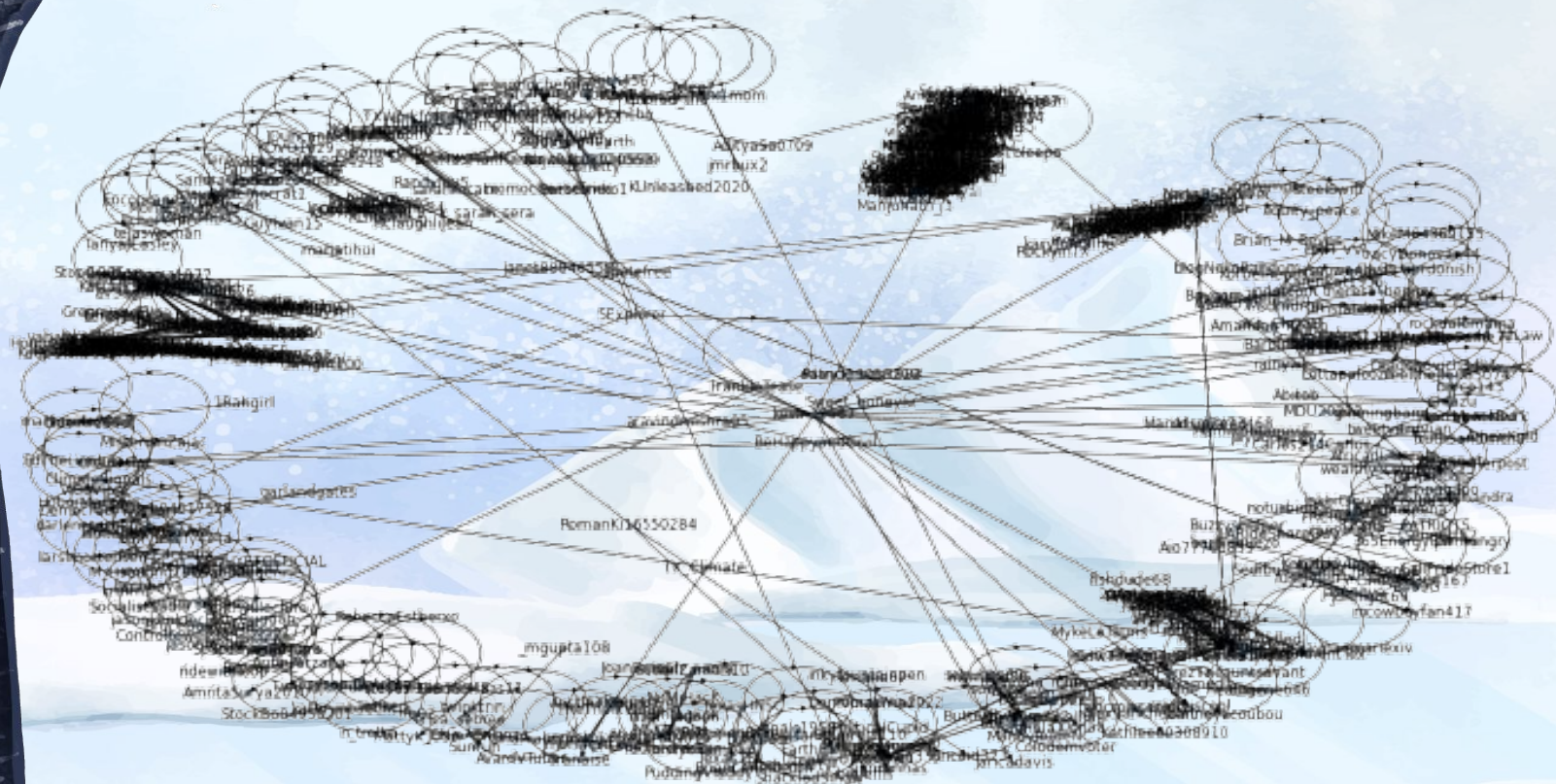
Variables Collected

Tweet Description,
retweets, favorites, friends,
followers, created at

Scrape Data From Twitter

	Tweet	Retweets	Favorites	Friends	Descriptions	Followers	User_A	Created At
0	RT @beckysvilla: Holy shit!! Power outage at m...	75	0	4884	I'm a strong believer in listening and learnin...	3414	avalondreams123	2023-02-13 23:46:49
1	RT @HawsHodls: As a canadian, \n\n#Texas, you ...	2	0	0	Just some guy that got sucked into this crazy ...	221	wealthy_crypt0	2023-02-13 22:18:06
2	RT @ClimateSignals: Two years ago, winter stor...	1	0	194	We are the largest group of diverse organizati...	682	TX_Climate	2023-02-13 19:04:33
3	RT @SadhguruJV: Disconcerting to witness harsh...	1181	0	4	NaN	9	CNGokul2924	2023-02-13 09:36:47
4	RT @SadhguruJV: Disconcerting to witness harsh...	1181	0	606	NaN	129	medhpro	2023-02-13 04:02:33
...
601	@davenewworld_2 What is that called when peopl...	0	1	22	Instilling the Saint-Soldier Mindset \nAdvocat...	71	ShackledSingh	2023-02-04 17:29:08
602	Gee maybe Greg Abbott should've spent all that...	1	6	246	outspoken liberal, House music head, cat dad	590	MisterianZajac	2023-02-04 17:28:28
603	RT @Tinu: It's been a year to the day since I ...	10	0	1581	Sentient dollop of frosting and anti-anxiety m...	1679	RebeccaEstherxo	2023-02-04 17:21:51

NetworkX





Centrality Measures

User	Degree	Betweenness	Closeness
SadhguruJV	0.296	0.293	0.54
BaddPrit	0.211	0.24	0.5
piyushmittal	0.208	0.19	0.44

Sadhguru  12.8K Tweets



Sadhguru  @SadhguruJV

Yogi, Mystic, Visionary & Founder, @ishafoundation. Tweets from Sadhguru himself are signed -Sg. [#SaveSoil](#) [#ConsciousPlanet](#) | @cpsavesoil

📍 India 🌐 [Savesoil.org](#) 📅 Joined August 2009

Follow

6,262 Tweets



BaddPrit @baddprit

Joined June 2009

2,120 Following 1,173 Followers

Follow



BaddPrit @baddprit · Feb 2


Greg Abbott is blissfully ignoring all these hateful tweets by folks that lost power for hours, as he enjoys his morning coffee at his palatial home, funded (normal way to say bribe) by the Texas energy companies. [#TexasFreeze](#)






UNDER GREG ABBOTT, TEXAS RANKS:

- #1 IN NUMBER OF SCHOOL SHOOTINGS
- #1 IN RURAL HOSPITAL CLOSURES
- #1 IN UNINSURED RESIDENTS
- #41 IN SCHOOL FUNDING
- #49 IN TEACHER RETIREMENT BENEFITS
- #50 IN ACCESS TO MENTAL HEALTH CARE

35 175 314 15.5K

Sadhguru  @SadhguruJV · Feb 1

Disconcerting to witness harsh Texas winter affecting & claiming lives. Unfortunately, disruption & loss of life due to extreme weather has become disturbingly common around the world. Urgent Action needed to mitigate the impact of [#ClimateChange](#). -Sg [#TexasFreeze](#) [#SaveSoil](#)

At least 2 dead, over 1,700 flights cancelled amid ice storm in US

At least two people have died, and over 1,700 flights have been cancelled in the US amid an ice storm. A sheriff's deputy in Texas was injured in a weather-related crash after he was hit by a truck while assisting a vehicle that had slid off the road, authorities said. Thousands of houses have also been left without power.

165 2,106 2,652 95.8K

Piyush Mittal   1871K Tweets

There is a cult of ignorance in the United States, and there always has been. The strain of anti-intellectualism has been a constant thread winding it's way through our political and cultural life, nurtured by the false notion that democracy means that "my ignorance is just as good as your knowledge" -Isaac Asimov



Piyush Mittal   @piyushmittal

[#MahsaAmini](#) [#SlavaUkraini](#) [#EndCitizensUnited](#) [#StrongerTogether](#) Post: [post.news/piyushmittal](#) Mastodon: [piyushmittal@masthead.social](#)

📍 California, USA 📅 Joined March 2009

27K Following 28.1K Followers

Tweets Tweets & replies Media Likes

Piyush Mittal   @piyushmittal · Feb 2

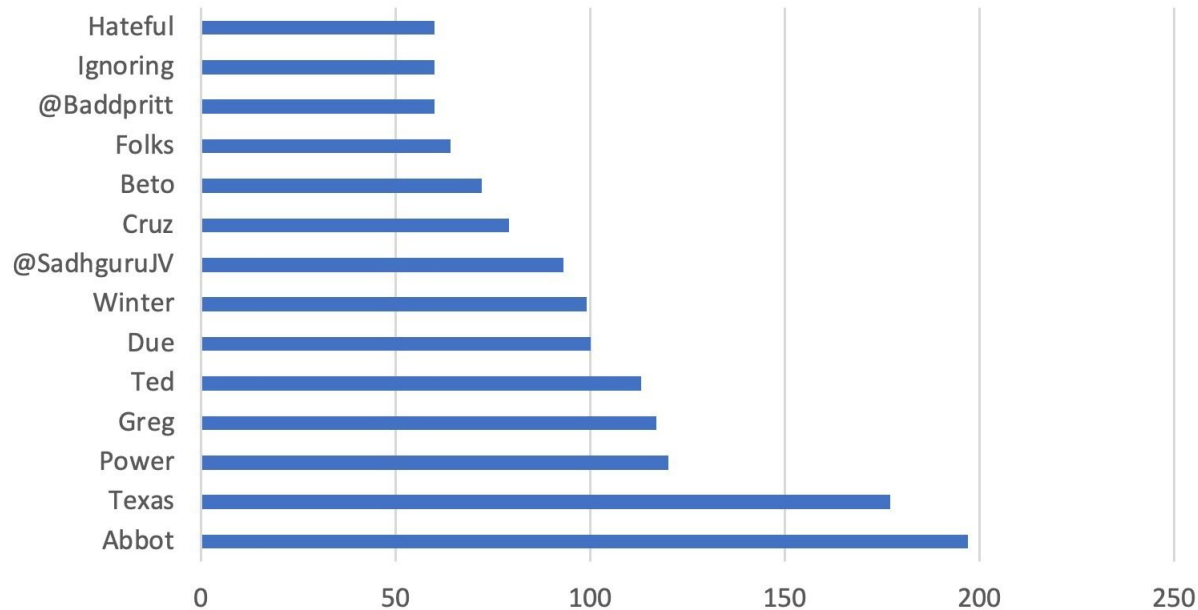
They picked Ted Cruz over Beto; Ted Cruz went to Cancun. They picked Greg Abbott over Beto; Abbott doesn't give a damn. Welcome to Texas. [#TexasFreeze](#)

48 192 765 28.8K

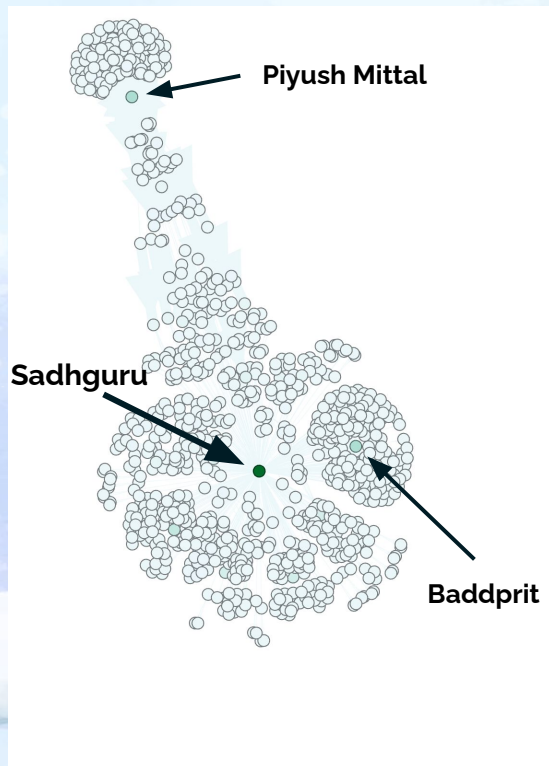
Key Insights

Most common words in tweets relating to Texas

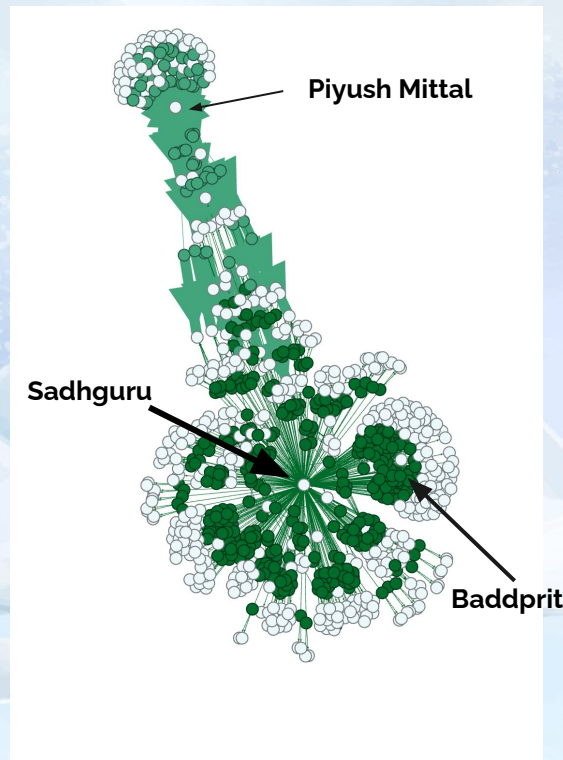
Freeze



Key Insights

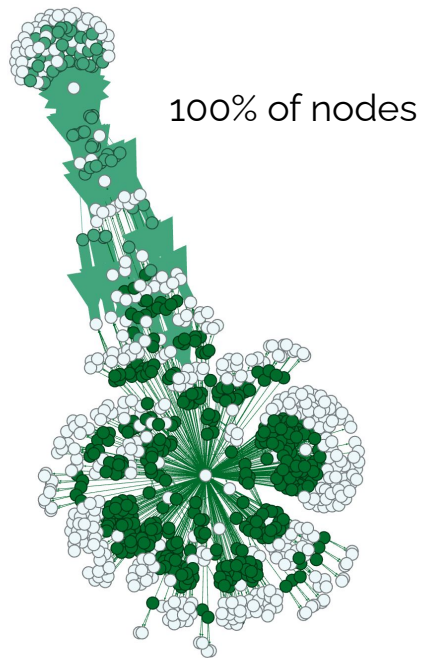


In - degree



Out - degree

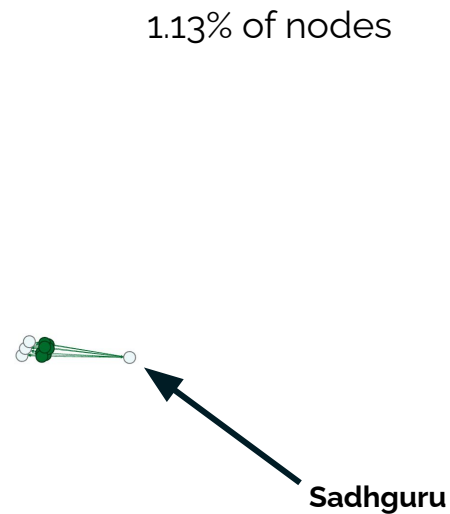
Key Insights



K-core = 1

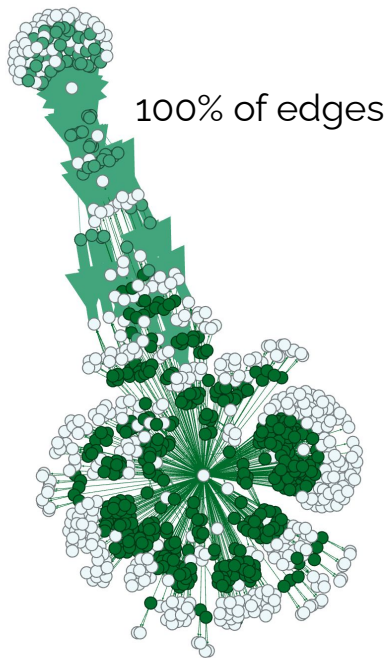


K-core = 2



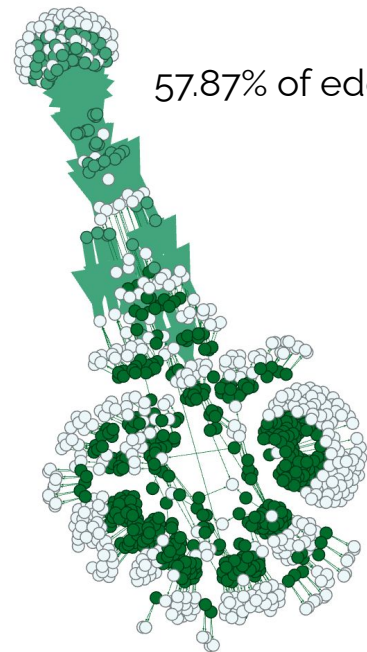
K-core = 3

Key Insights



100% of edges

All people



57.87% of edges

Without top 3 influencers

The background of the slide features a stylized, painterly illustration of a winter scene. On the left, two dark, leafless trees stand against a light blue sky. In the distance, soft, white mountains are visible under a pale blue sky. The overall aesthetic is clean and modern, with a cool color palette of blues, whites, and greys.

Conclusion

Recap:

- Networkx allows us to standardize and conduct network analysis on immense datasets & to visually analyze relationships across various sectors
- Users with higher betweenness & closeness scores have higher impact within the network because they have more control & access to move info throughout network

Next Steps:

- Ice storm tweets seem to be politically focused
- Conducting a deeper analysis on the political tweets to investigate sentiment
- Based on these responses, we could look to add policies, adjust city infrastructure, etc. according to public opinion & common feedback



Thank you!

Questions?