Lil Shawtty got hit Up who Sung that #Bdk song. That shit Sad. But thats a fine example of how Internet drilling get u kilt. Smd R.I.p Jojo

I swear if I was Jojo’s mama, Mauja would be dyin of all sorts of accidental deaths man... These kids have no concept of life n death...

JoJo got whacked???

@DatNigga_Bigg: alot of bodies finna start droppin now that jojo dead #RIPJOJO

That shit crazy I just seen jojo ass on 73rd and may that saturday of my lil sis party thats smth

Thinking” this Chief Keef JoJo Lil Reese situation is gonna blow up into the national news
TEENS ON SOCIAL MEDIA

92% ONLINE DAILY
71% USING MORE THAN ONE SOCIAL NETWORKING SITE
45% OF BLACK TEENS USE TWITTER
Internet banging: New trends in social media, gang violence, masculinity and hip hop

Desmond Upton Patton a, Robert D. Eschmann b, Dirk A. Butler b
Qualitative Studies
Sticks, stones and Facebook accounts: What violence outreach workers know about social media and urban-based gang violence in Chicago

Desmond Upton Patton, Robert D. Eschmann, Caitlin Elsaesser, Eddie Bocanegra
When Twitter Fingers Turn to Trigger Fingers: a Qualitative Study of Social Media-Related Gang Violence


International Journal of Bullying Prevention 1, 205–217(2019) | Cite this article

3252 Accesses | 5 Citations | 48 Altmetric | Metrics
Digital Qualitative Methods
NO SURRENDER LIL B
@TyquanAssassin

#Youngest In Charge, #063-4 free dem
Hittas I hope dey get an appeal #STLEBT
#BCTVG #TMB #TTG #CPDK #CPDK
#tyquanassassin PAID SHOOTA

HEADQUARTERS BITCH

COLUMBIA School of SOCIAL WORK
On 4nem the opps killed my brobro ❤️

Vernon dats da Gun Line. You cross it You end up in da Head lines 😈 😅 🔫

my struggle ain’t been told 😞😞

anyone can get 🙌 in this lyfe 🤷‍♂️ lackin 🚘🔑100

my blood 🚔🐷🚘 left him in cold blood 😞🙏

We see da opps Fuck it We Gon smoke em 😻
Gang violence on the digital street: Case study of a South Side Chicago gang member’s Twitter communication

Desmond U Patton, Jeffrey Lane, Patrick Leonard, Jamie Macbeth, Jocelyn R Smith Lee

First Published January 25, 2016 | Research Article | Check for updates

https://doi.org/10.1177/1461444815625949
New Methodology for Social Media Analysis: The CASM Method
CONTEXTUAL ANALYSIS OF SOCIAL MEDIA (CASM)

Rival gang member this user has allegedly killed

Jay Smokin thinkin bout Dmoney

Grieving with Emojis

2:12AM - 3 Apr 2014

Substance Use

Late at night

Fellow gang member recently killed by police
DOMAIN EXPERTS
MSW ANNOTATORS
Application of CASM
Tweet

Im Been Up 4 Lik 3 Days Straight 😞...

Part 1/3 – First Impression

If this tweet came up on your social media wall, what would be your first impression? (What would come to your mind right after seeing it? How would it make you feel?)

Go to Part 2
Im Been Up 4 Lik 3 Days Straight 😞😭...

Part 1/3 – First Impression

If this tweet came up on your social media wall, what would be your first impression? (What would come to your mind right after seeing it? How would it make you feel?)

he hasn't slept in days
2

ANNOTATION PROCESS

Original Social Media Post
Utilize Web-Based Resources
Original Post’s Author
Peer Network
Offline Events
Virality
Engagement

Im Been Up 4 Lik 3 Days Straight 😞😢...
Im Been Up 4 Lik 3 Days Straight 😞🙄...

General Description

Please describe in detail everything that is going on in this tweet.

This user is saying that he's been up for three days straight most likely meaning he hasn't slept in three days. This post comes days after his friend was killed. This user may be having difficulty sleeping because of his friend's death. He includes a persevering emoji and a flushed face emoji.

'I've been up for like 3 days straight.'
LABELING

Im Been Up 4 Lik 3 Days Straight 😞...</p>

Part 3/3 – Code

- Grieving
- Aggression
- Social Behavior
- Mood
- Neighborhood (General/Gang-Related)
- Status Seeking
- Health
- Relationships (Romantic/Familial)
- Support
- Growth
- Authenticity
- Substance Use

Machine Learning Labels:
- LOSS
- AGGRESSION
- OTHER
COMMUNITY EXPERTS

PROFESSIONAL INTERVENTION EXPERIENCE WITH GANGS
IN VolVEMENT IN OR AFFILIATIONS WITH GANGS

DISAGREEMENT THEMES

COMMUNITY-LEVEL ITEMS, PLACES, CONTEXTS, OR ‘BACKSTORIES’ (E.G., TRAP HOUSE)
PEOPLE (E.G., DEATH)
HAND GESTURES (E.G., GANG AFFILIATION)
NATURAL LANGUAGE PROCESSING & COMPUTER VISION
NATURAL LANGUAGE PROCESSING

COMPUTER VISION

NLP @

DVMMlab
digital video | multimedia laboratory
Objective

- Develop an AI system to automatically detect Aggression and Loss in social media posts from gang-involved youth from Chicago.
- Supervised Learning and Natural Language
  - Discrete features extracted from text
  - Data labeled with aggression, loss and other
- Semi-Supervised Learning and Neural Nets
  - Word embeddings
  - Unlabeled plus labeled data
Data for Initial Experiment

Training data: 616 tweets

Development: 102 tweets

Test: 102 Tweets

Manually Annotated with Parts of Speech Tags.
Automatically Processing Tweets from Gang-Involved Youth: Towards Detecting Loss and Aggression

TERRA BLEVINS, ROBERT KWIATKOWSKI, JAMIE C. MACBETH, KATHLEEN MCKEOWN, DESMOND PATTON, OWEN RAMBOW
New Datasets

#1: 4,936 labeled tweets
- Gakirah Barnes and her top communicators
- Labeled by Community Domain Experts and MSW student annotators

#2: ~ 1,000,000 unlabeled tweets from 279 total users
- Collected through an adapted traditional snowball sampling technique
- Using Gakirah Barnes and her top 14 communicators as the Seed Users
Detecting Gang-Involved Escalation on Social Media Using Context

Serina Chang, Ruiqi Zhong, Ethan Adams, Fei-Tzin Lee, Siddharth Varia, Desmond Patton, William R. Frey, Chris Kedzie, Kathy McKeown

Published 2018 in EMNLP

AUTOMATICALLY CLASSIFIES POSTS AS AGGRESSION, LOSS, & OTHER

F-MEASURE 69.8%
ICWSM-2019

Multimodal Social Media Analysis for Gang Violence Prevention

Philipp Blandfort, Desmond Patton, William R. Frey, Svebor Karaman, Surabhi Bhargava, Fei-Tzin Lee, Siddharth Varia, Chris Kedzie, Michael B. Gaskell, Rossano Schifanella, Kathleen McKeown, Shih-Fu Chang
The Impact of Lockdown on Social Media
Network Video Productions/Last Night
Chicago

Coronavirus Pandemic
Globally
Total Cases 19,947,467
Deaths 732,650
In the United States
Total Cases 5,071,306
Deaths 163,252
Source: Johns Hopkins University

America in Crisis
Chicago in Disarray After a Night of Shootings, Looting, & Destruction
ETHICAL ANNOTATION AGREEMENT
SAFElab, Columbia University School of Social Work

I, ________________________, as someone receiving social media data from the SAFElab at Columbia University School of Social Work, adhere to the following ethical agreements in order to prevent harm to and protect the safety of users whose social media data I am observing. If any instances arise where I break any of the following agreements, I will notify Dr. Desmond U. Patton and William R. Frey immediately, and work with them to build a strategy for accountability.

I will not:

- discuss content of social media data with anyone outside of the SAFElab research team.
- present or share any identifying information from the social media data.
- share any data, research, or observational notes with anyone outside of the SAFElab research team.
- actively interact with or attempt to contact users in the social media dataset.
  - (e.g., like, retweet, comment, or mention on posts from the dataset).

I will:

- store the data on a password protected computer.
- take measures to protect the social media data.
  - (e.g. use a dark screen, sit in a private location).

Signature: ________________________  Date: ________________________
DEVELOPING PLATFORMS WITH COMMUNITIES FOR REAL-TIME SOCIAL MEDIA UPDATES
DEVELOPING PLATFORMS WITH COMMUNITIES FOR REAL-TIME SOCIAL MEDIA UPDATES

TO WHAT END?
SIMULATION EDUCATION

- INTERVENTIONS
4 Stages of Practice

1. **Interpret** social media posts
2. Learn about a post’s **Context**
3. **Interact** with stakeholders and post feeds
4. Choose **Response** and reflect

What do you think this post is about? Why?

Here are some options to learn more. You can explore all or none of them.

- Connect with their school
- Send street officers to monitor near where the youth lives/ goes to school
- Analyze past social media posts
- Look up the youth’s criminal background
Social media:
- Communities where youth live their lives, not necessarily distinct from their offline world
- Can be powerful tool for understanding/preventing root causes of violence

Artificial Intelligence (AI):
- offers opportunity to augment/bolster current violence prevention efforts

H owever, social media and AI are not sole answer to violence prevention.

When not used thoughtfully and correctly, social media and AI can be tools for surveillance and mass incarceration.
Context:

- Extremely important when interpreting/analyzing social media posts
- Important to uncover and **Biases (Personal & Institutional):**
- Consider when using social media/AI for school violence prevention

This work should not be done alone.

It's important to have critical, diverse perspectives and voices in the application of social media/AI for community safety.
Thank you!