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Parenting, Vaccines, & COVID-19: A Machine Learning Approach to Digital Leisure Research

Katie Thurson & Ryan Gagnon Clemson University The Academy of Leisure Sciences Conference February 9, 2023

A camp director who happens to be a PhD student



How did we get here?

What do we do now? CHICAGO NEWS METRO/STATE

Chicago doctors battle COVID vaccine misinformation: No, the shot won't make you infertile, and other myths

It's a race against time to get the vast majority of the population vaccinated and misinformation is causing hesitancy for getting shots. By Brett Chase | Sept 7, 2021, 6:00am EST

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Florida Family Indicted for Selling Toxic Bleach as Fake "Miracle" Cure for Covid-19 and Other Serious Diseases, and for Violating Court Orders

Defendants Accused of Attempting to Avoid Government Regulation by Selling Products Through a Company They Deceptively Named "Genesis II Church of Health and Healing"

TECH

Why it's not possible for the Covid vaccines to contain a magnetic tracking chip that connects to 5G

UBLISHED FRI, OCT 1 2021-11:00 AM EDT | UPDATED FRI, OCT 1 2021-11:40 AM EDT

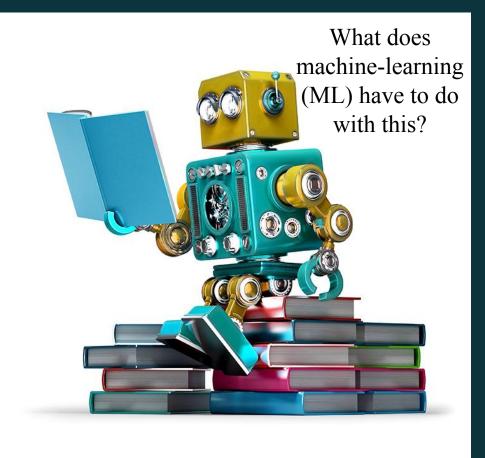


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What are the conversations and commentary occurring on social media about parenting, vaccine hesitancy, and COVID-19?

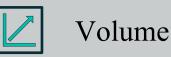




Data Management

126060	x20287312	x1339389396	###########
126061	x4556793707	x1339389378	##########
126062	x7237580054	x1339389375	##########
126063	x1191705269	x1339389373	##########
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126065	x1283099516	x1339389353	##########
126066	x4178238262	x133938934(###########
126067	x1140721226	x1339389330	##########
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Original Twitter data





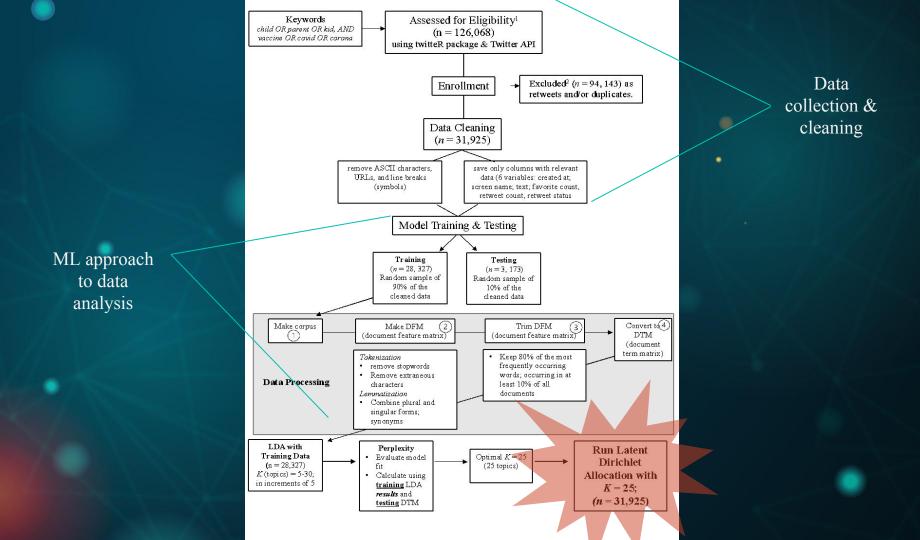
Velocity

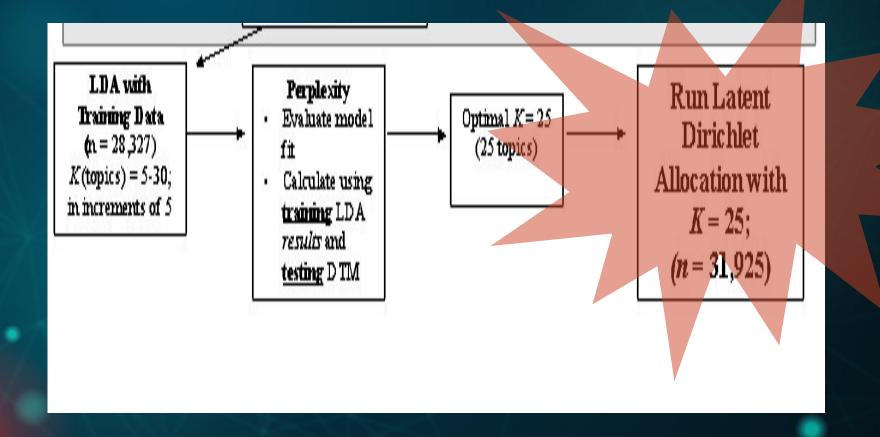


Variety



Veracity





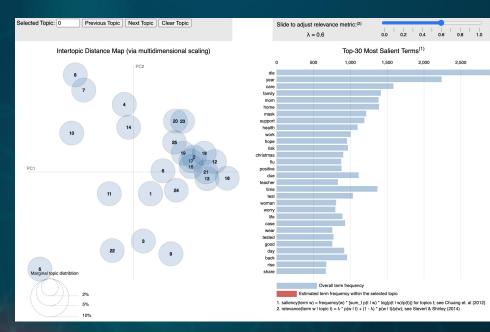
kid

covid school zombie movie teacher parent vaccine shot doctor

Latent Dirichlet Allocation

A machine-learning model that belongs to the topic model family.

Visualizing Topics with LDAvis



Government Feelings School Public Health Christmas Risk & Safety Families





Recommendations for <u>Practice</u>: Risk & Safety Grouping [Topics 11, 16, 20]



Risk & Safety Grouping Representative Tweets Nothing like sacrificing your precious child to a vaccine with NO safety data for pregnant, breastfeeding mothers or for rapidly growing children. Sure hope he's not harmed @SkyNews @RachelReevesMP I'm a single parent dad and I would rather b at home with my kids then put them at risk in school which every week u here a new case of Covid. Only parents that seem 2 want to put the kids in school are the 1s that don't want to stop working or don't want 2 b stuck at home wiv them.

Recommendations

- What is your camp's immunization policy *management* strategy?
- For parents: Include resources from the CDC and AAP in your camp's Health History form to address vaccine hesitancy.
- For camps: Include resources from the CDC and AAP in your camp's communicable disease plan.

Implications for Research

Challenges with research at the frontier



GOLDEN CHILD

What do these pictures have in common?

"goibibo" "ik4ea9l4kr"

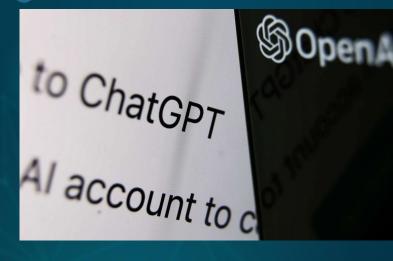
"jaehyun" "goldenchild"





Data Science for Leisure Scientists

Addressing twenty-first century issues requires twenty-first century skills.





Stay in touch!

Thurson, K.M., Gagnon, R.J., Garst, B.A., & Sharaievska, I. (2023). Vaccine hesitancy, parental concerns and COVID-19 in a digital leisure context: Implications for out-of-school time. Journal of Leisure Research.

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