Using Hyper-Targeted Advertising for Public Health Messaging

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Public Health Messaging Today



https://facebook.com/SmokefreeSW



- limited targeting using age/gender
- "one-size-fits-all" visual and text
- social media for "fans"
- duration less than 1 year
- goal: one viral message
- different visuals
- different texts
- specific to customer segment
- dynamic creatives
- goal: personalization



https://www.doubleclickbygoogle.com/articles/weight-watchers-boosts-acquisitions-56-using-dynamic-creative/

Existing Ad Targeting Capabilities

Demographics: age, gender, marital status, recent parents, nationality, education, income (US/UK), ethnicity (US), ... Interests: fast food, weight loss, lung cancer, running, ... Geo-fencing: recent hospital/bar/park visitors, ... "Personality": Using marker interests as proxy^{*} ... Custom audiences: known email, phone number, names, ...



The Pitch

"Show the right public health message to the right person at the right time" Advertising 101

- 1. Have domain experts generate visuals and texts as well as user segments
- 2. Where appropriate, measure offline conversion ("in-store visits")
- 3. Use AI to learn best visuals-text-segment combinations

Examples

- Activity in nearby park (parents, football lovers, couples, ...)
- Diabetes screening tests (interest in plus-size clothing, in fast food, ...)
- Benefits of breast-feeding (recent moms, different education levels, ...)
- Child vaccination (age of child, political orientation, education level, ...)

Side effect: Advance science of behavior change



Challenges and Opportunities

- Privacy: re Cambridge Analytica
- Ad fatigue: personalization can help
- Digital divide: users not on the respective platform left behind
- + Reach: more than 2B Facebook users
- + Cost effective: easy to start small, scale up
- + Science: large-scale health behavior change



Starting soon Proof-of-Concept Studies

Advertising healthy recipes in the US on Facebook

- emphasizing taste vs. health benefits
- interest-based targeting (healthy vs. unhealthy)
- geographic targeting (high/low obesity rates)
- joint work with Christoph Trattner and Pamina Strobl



- social vs. individual consequences
- white vs. non-white model in ad image
- demographic targeting (parents or not, married or not)
 - joint work with Kokil Jaidka and Lyle Ungar





Thanks!

Ask me about real-time analysis of social media text and images during disasters for situational awareness



http://aidr.qcri.org/

