

Machine Learning meets Library Archives

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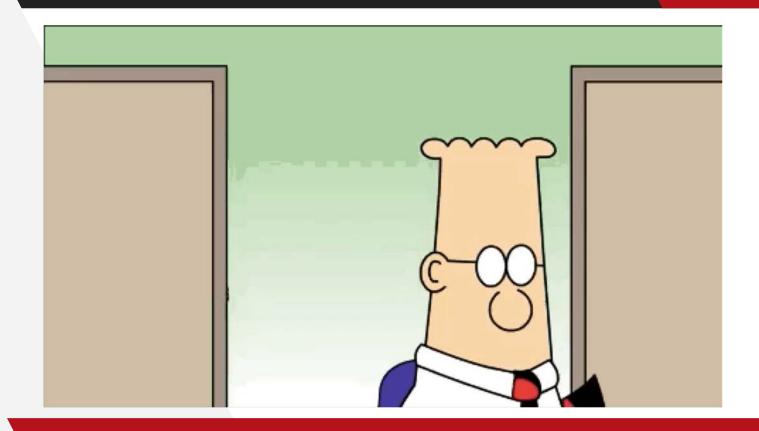
Bohan Zhu Software Developer Dhanushka Samarakoon Assistant Head of Software Development

Brian McBride Head of Digital Infrastructure Development

Historical Images: Human or Machine generated metadata?



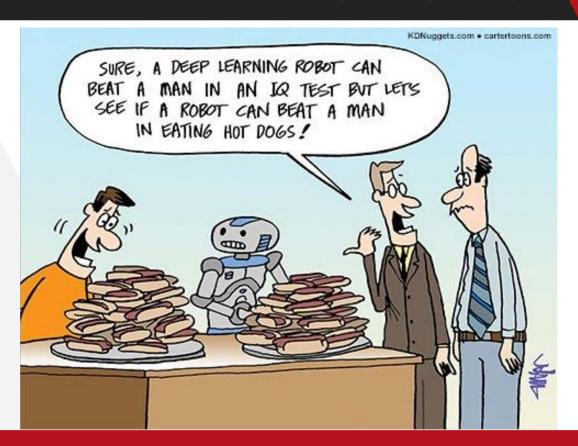
Problem



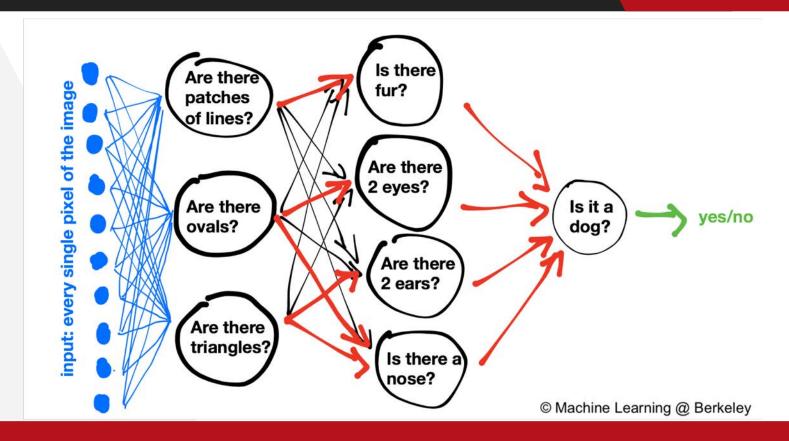
Problem Statement



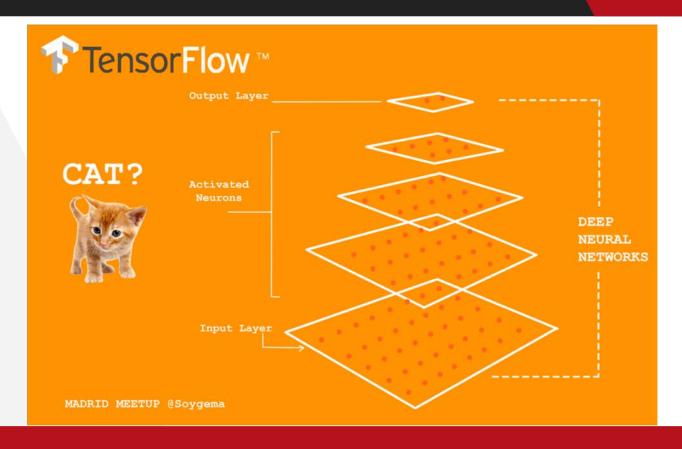
Our approach - Machine Learning / Image Analysis



What is Machine Learning?



Model Development

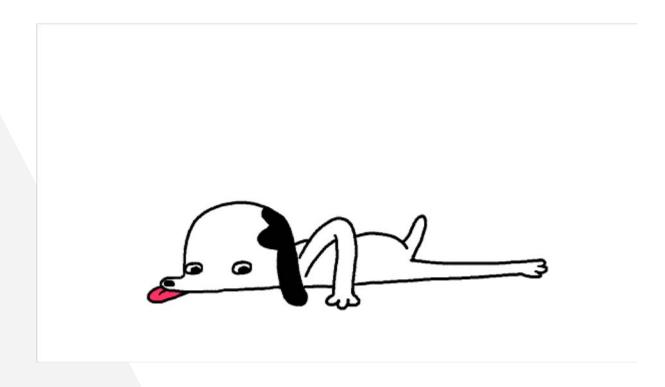


SWOT Analysis

Strengths



Weaknesses



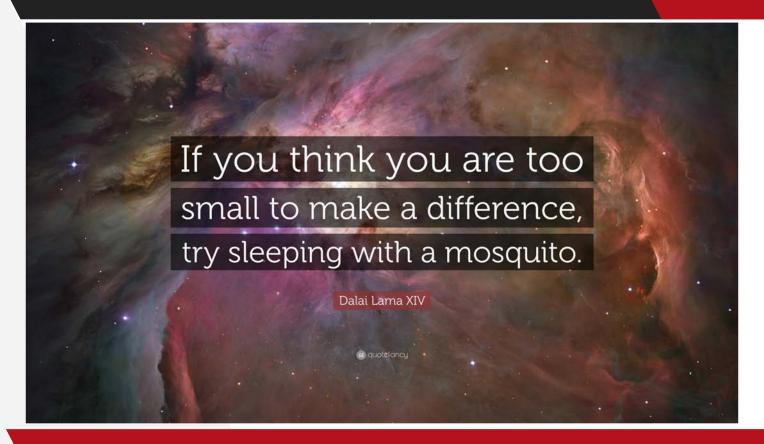
Opportunities



Threats



Impact



The Domino Effect

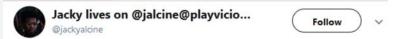




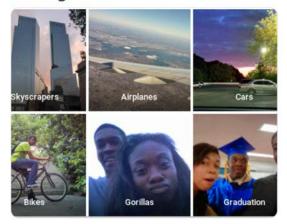
TAKING RISK

There's a fine line between taking a calculated risk and doing something dumb.





Google Photos, y'all fucked up. My friend's not a gorilla.



This past May, Flickr's facial recognition software labeled both black and white people as "animals" and "apes" (these tags were promptly removed). Furthermore, many Native American dancer photos were tagged with the word "costume," which added great insult to the community.

8:22 PM - 28 Jun 2015

3.293 Retweets 2.303 Likes

















Credits

- https://www.npr.org/sections/alltechconsidered/2016/06/27/480639265/human-or-machine-can-you-tell-who-wrote-these-poems
- https://media.giphy.com/media/xTiTnGeUsWOEwsGoG4/giphy.gif
- http://www.wisegeek.net/how-do-i-lay-brick.htm#laying-brick-wall
- https://i.pinimg.com/736x/39/6d/a2/396da2520a58a3b0936154036f812965.jpg
- https://ml.berkeley.edu/blog/assets/tutorials/3/recognize%20dog%20neural%20network.png
- https://cdn-images-1.medium.com/max/1600/1*fy88j-fYXR6a-Vw2xZkV6Q.qif
- https://media.giphy.com/media/1dMNqVx9Kb12EBjFrc/giphy.gif
- https://media.giphy.com/media/PfFtibPKBbQrK/giphy.gif
- https://media.giphy.com/media/SqT6AxUf66uMo/giphy.gif
- https://media.giphy.com/media/1yTaZMgUG8IDh9LV8s/giphy.gif
- https://guotefancy.com/guote/1646/Dalai-Lama-XIV-If-you-think-you-are-too-small-to-make-a-difference-try-sleeping-with-a
- https://media.giphy.com/media/hrkMkmWuX6EWk/giphy-downsized-large.gif
- http://1.bp.blogspot.com/ 92ltgE9W130/S82k0fxw6ml/AAAAAAAAADI/flEpVdQFhPk/s1600/risk-taking-2.jpg
- http://lowres.cartoonstock.com/recruitment-recruitment-job interviews-human resources-jobs-robot-mfrn210 low.jpg
- http://www.clker.com/clipart-442301.html

Thank You!



- a man and a woman sitting at a table. (p=0.000579)
- a man and a woman sitting in front of a laptop computer. (p=0.000110)
- a man and a woman sitting at a table with a laptop. (p=0.000096)

