A.I. Literature Review with Text Mining
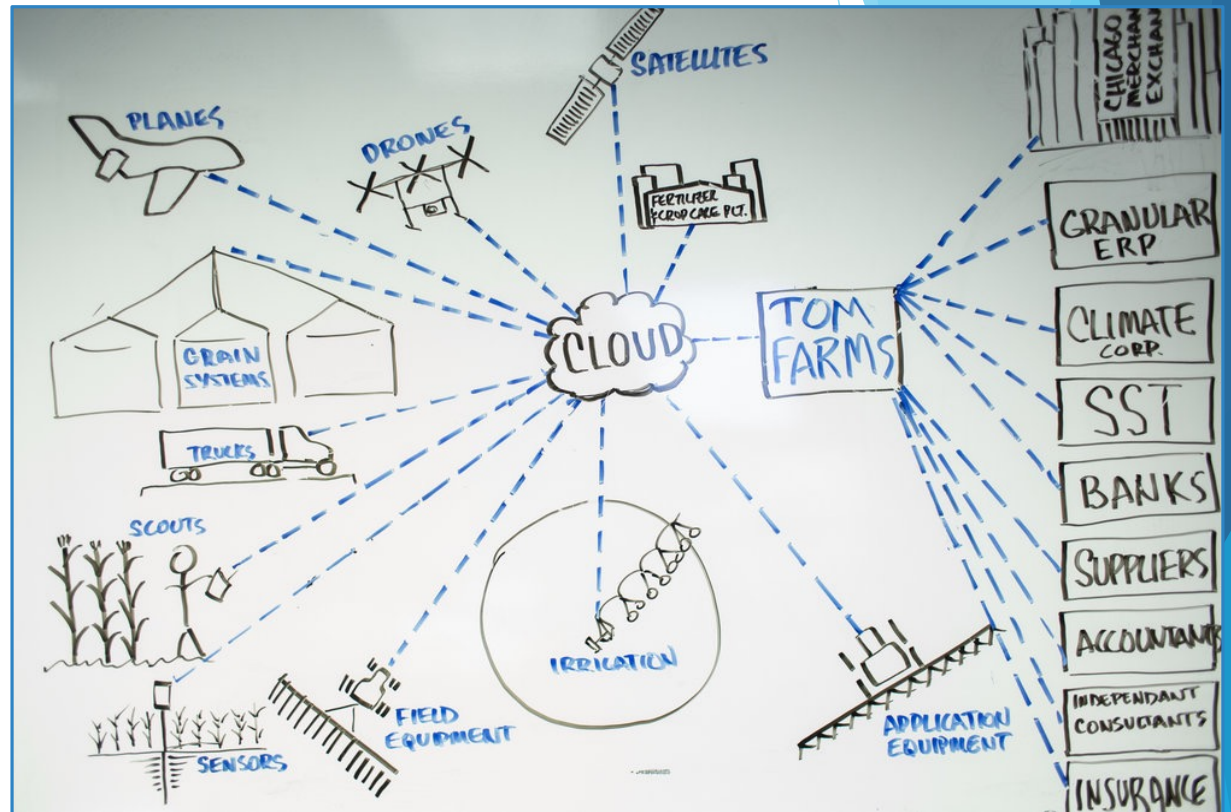
BIA 6304 Text Mining, Fall 2019

Sara Lienau

"The digital evolution of agriculture is already a fact of life **on farms** across the US."

How High Tech is Transforming One of the the Oldest Jobs: Farming

New York Times, Sep 6, 2019

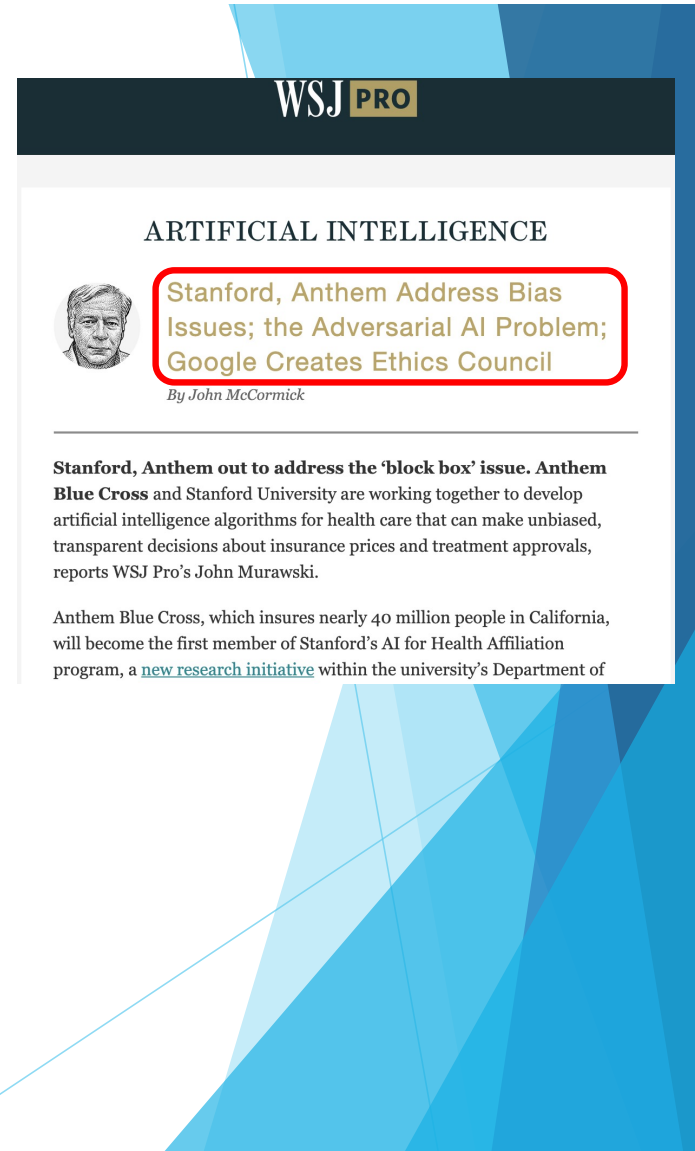*"When the past is all you know; it is hard to see the future."*
Tim O'Reilly, Founder & CEO O'Reilly Media

▶ Goal: Learn more about the Present – current applications of AI

▶ Literature Review Proof-of-Concept

  ▶ Is the WSJ Pro AI Newsletter a good source of information?

  ▶ Are "text mining" techniques helpful to get our arms around this material?

Quotable

"When I see it applied to something that without AI, it is just too complex, we never would have seen how that system works, that I feel like, 'Wow, that is a very good thing.'"

— Microsoft co-founder Bill Gates

WSJ PRO

ARTIFICIAL INTELLIGENCE

Stanford, Anthem Address Bias Issues; the Adversarial AI Problem; Google Creates Ethics Council

By John McCormick

Stanford, Anthem out to address the 'block box' issue. **Anthem Blue Cross** and Stanford University are working together to develop artificial intelligence algorithms for health care that can make unbiased, transparent decisions about insurance prices and treatment approvals, reports WSJ Pro's John Murawski.

Anthem Blue Cross, which insures nearly 40 million people in California, will become the first member of Stanford's AI for Health Affiliation program, a new research initiative within the university's Department of

Article Titles => Landscape of Topics

Companies

- Google (14)
- Startup ... (11)
- Amazon
- IBM
- Microsoft
- Softbank

Countries

- China
- U.S.

Industries
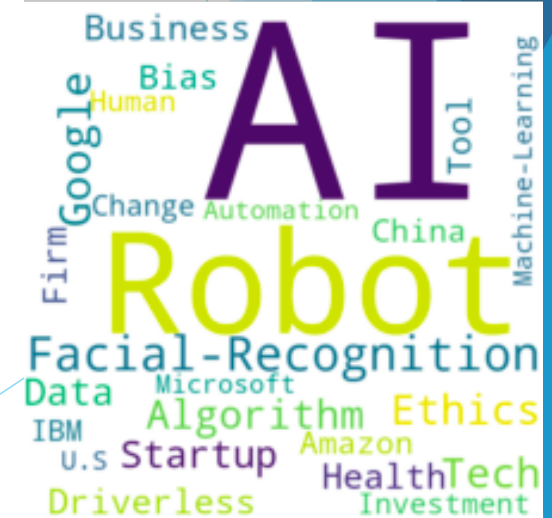
- Tech (13)
- Health (care)
- Firms ... (Security, Law, PE, Financial)
- Company (Trucking, Car, Senior-Housing)
- Investment

Major Topics

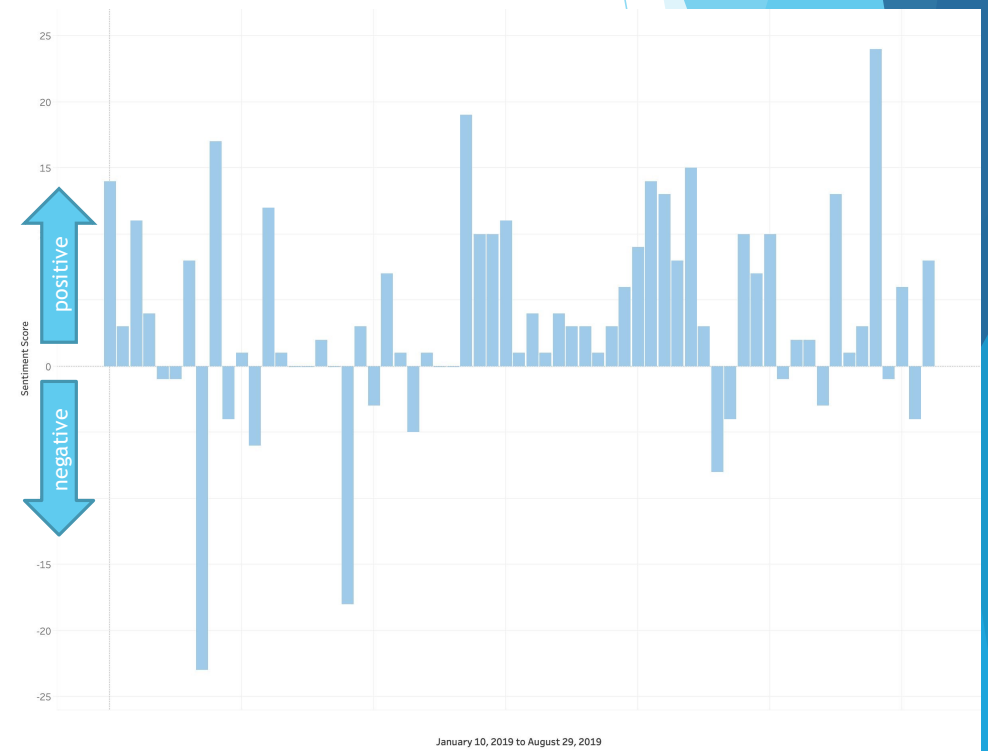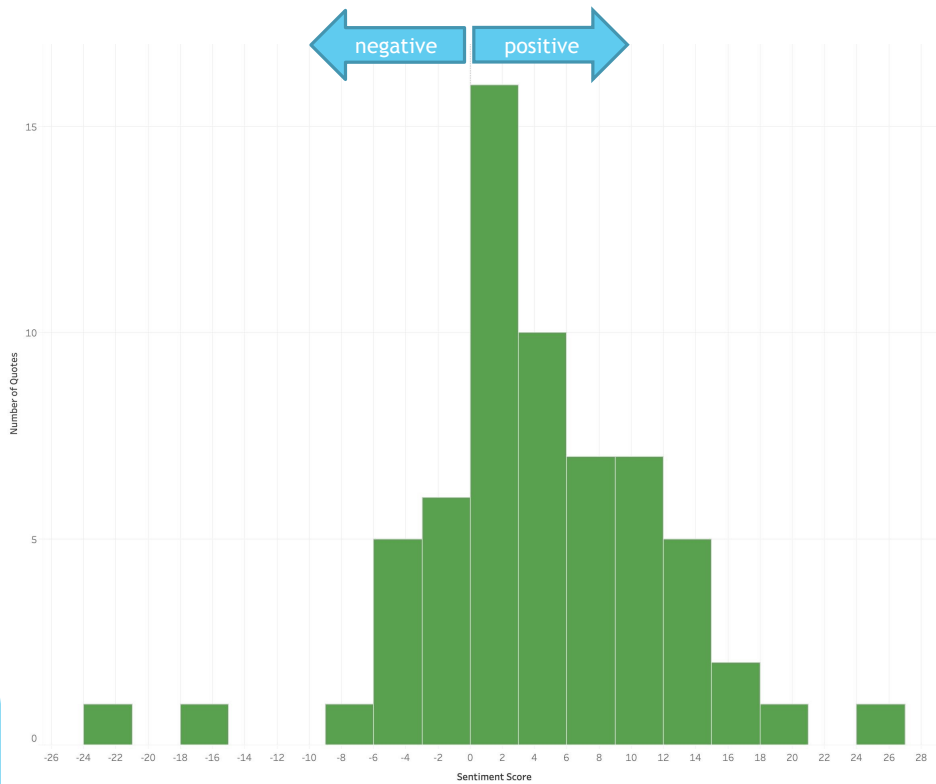- A.I. (172)
- Robot (25)
- Facial Recognition (17)
- Algorithm (12)
- Data (11)
- Driverless
- Tool
- Machine Learning
- Automation

Other ??

- Business (13)
- Job
- Change

Responsibilities

- Ethics (13)
- Bias
- Human
- Jobs

Sentiment Scores => Leaning or Bias

January 10, 2019 to August 29, 2019

Sentiment of Quotes

If we can achieve true consciousness in machines … then we can teach them to care.

(Highly Positive)

These platforms have been weaponized, and these aren't hypothetical threats.

(Negative/Neutral ??)

Takeaways & Next Steps

▶ WSJ Pro AI Newsletter content on target, the tone is a mixed but somewhat positive leaning

▶ Work with legal to understand WSJ subscriber agreement & then determine data source.

▶ Continue Research & Text Mining

▶ Report back results or stumbling blocks

  ▶ Identify 3 uses of AI relevant to our business & experience with text mining