

Open the Black Box: An Executive Guide to Making Unstructured Data Work in Finance



MICHELLE BONAT
CEO I CO-FOUNDER, DATA SIMPLY

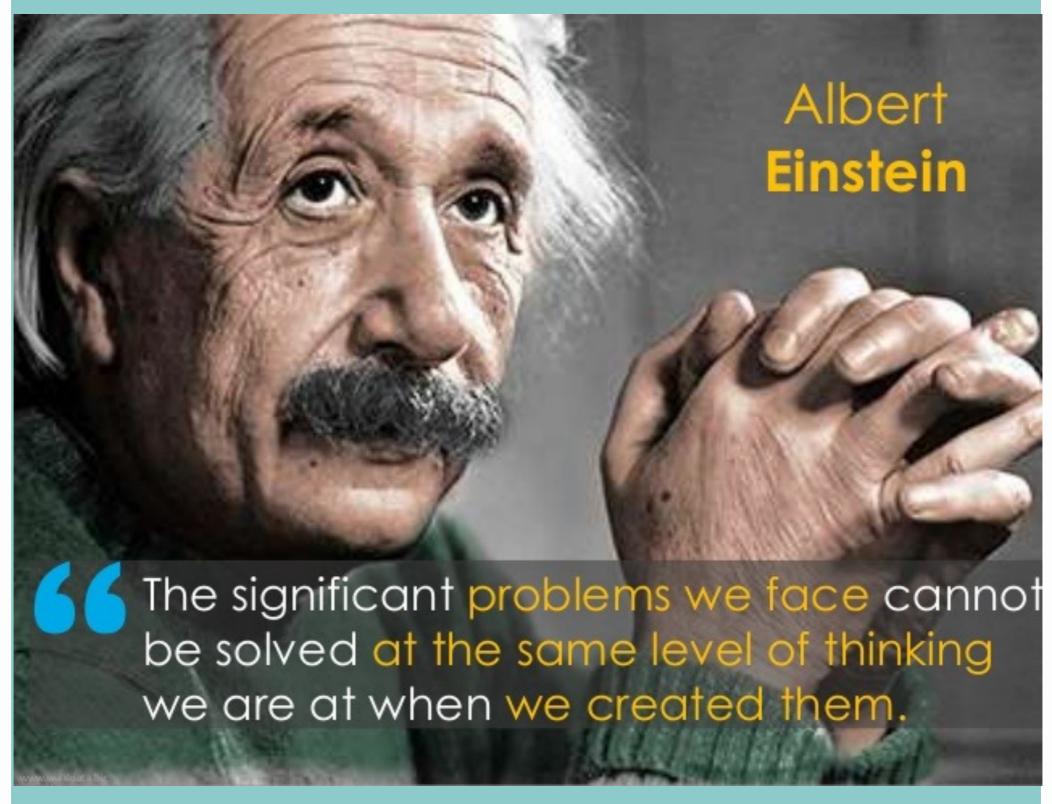
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Agenda:

- Why
- What
- How



The Why:





The Opportunity: How are these the same?



Adjusted EBITDA (1)



SEC Filings UNITED STATES SECURITIES AND EXCHANGE COMMISSION FORM 8-K 10-K/A 1 d177362d CURRENT REPORT Table of Content Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1936 EX-99.1 2 q116exhibit991er 1 1 a2226867zs-1. SAN FRANCISCO - May Twitter, Inc. reported solid growth in o in the first quarter of 2016 ☑ ANNUAL F increase of 137% year-ov (Commission File Number (IRS Employer Identification No.) Lending Club today also r TRANSITIO His resignation followed a instructions as to a non-cr San Francisco, California 94103 principal executive offices, including zip code (415) 222-9670 Scott Sanborn will contin Mr. Sanborn will be suppo "A key principle of the Co the financial impact of this during the review was una Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below): rectify these issues," said [] Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)] Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12) "As our first quarter resul ent communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b)) Club President and acting success of Lending Club, nent communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c)) indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes 🗆 No 🗵 Originations Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (c for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes Operating Revenue Indicate by check mark whether the Registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such

They all can use:

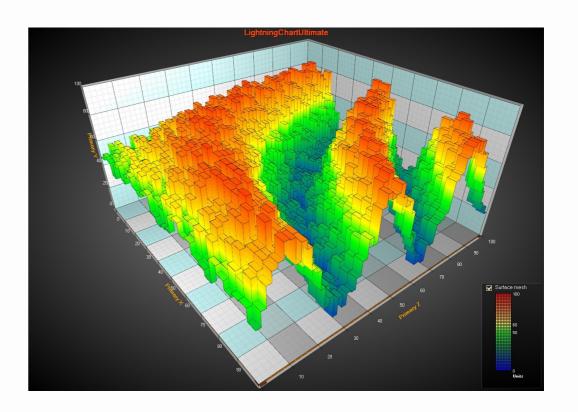
machine learning to surface patterns for data-driven decisions

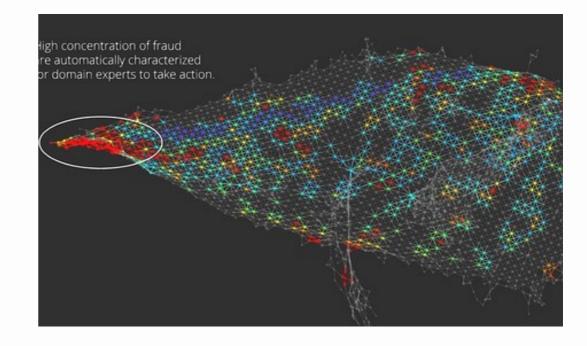


Which is better for making decisions?

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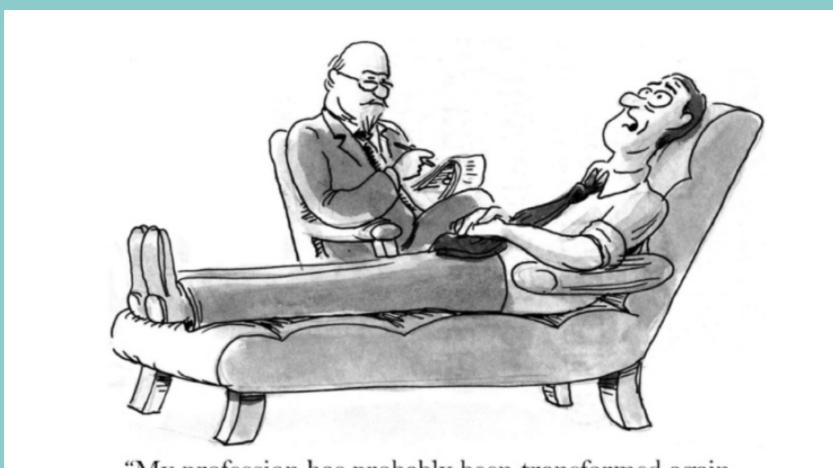


Of course!

But how we do we get to data-driven finance and risk with <u>unstructured</u> data?



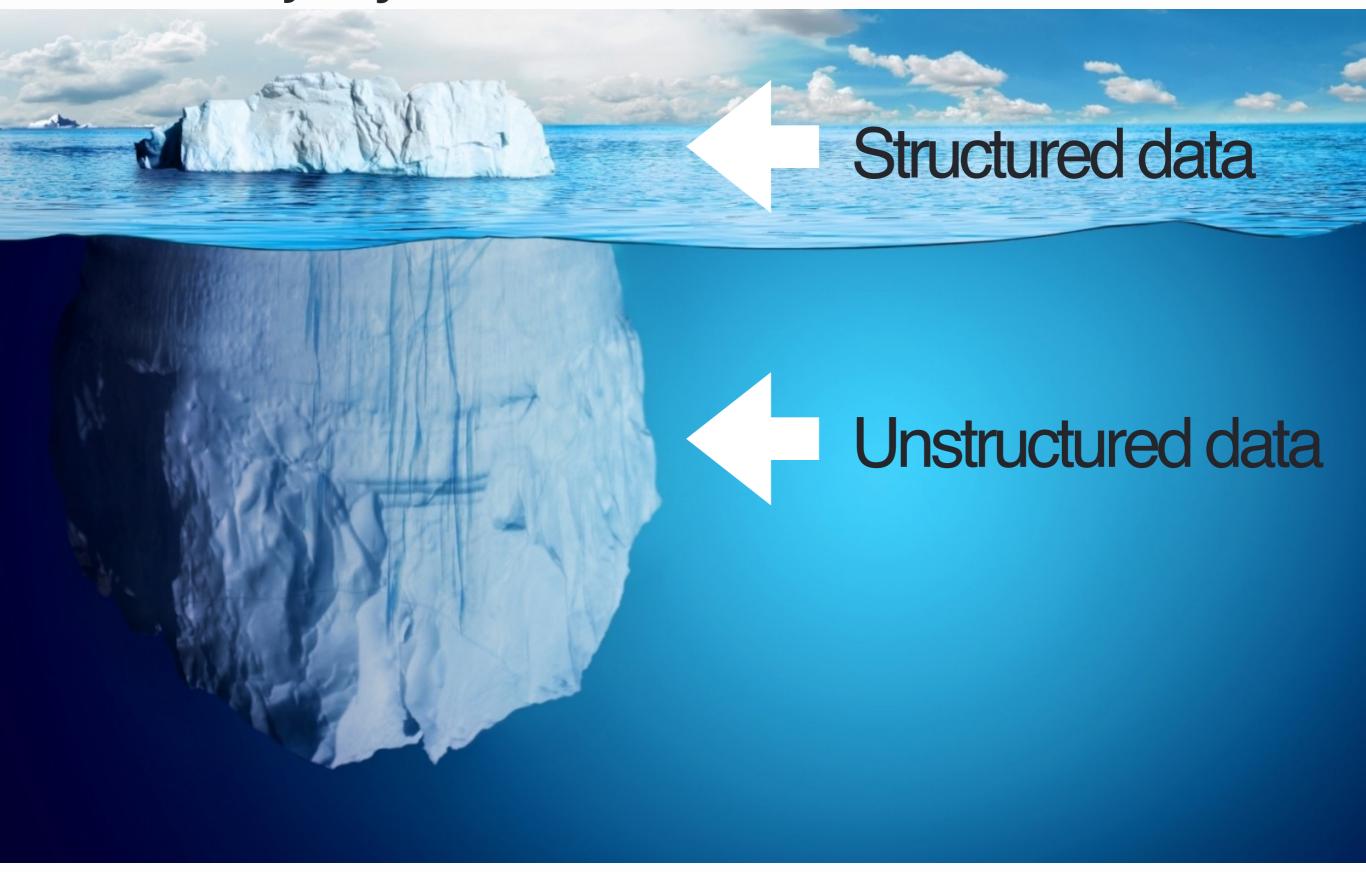
The Challenge:



"My profession has probably been transformed again just since we started this session."



Vast majority of the world's data is unstructured





How will you leverage that opportunity?



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Unstructured data

From Wikipedia, the free encyclopedia

Unstructured data (or unstructured information) refers to information that either does not have a pre-defined data model or is not organized in a pre-defined manner. Unstructured information is typically text-heavy, but may contain data such as dates, numbers, and facts as well. This results in irregularities and ambiguities that make it difficult to understand using traditional programs as compared to data stored in fielded form in databases or annotated (semantically tagged) in documents.



3 real world examples

- Save time
- Save moneyGet sued less

many more possibilities



Use Case #1: More Efficient Equity Research

- Track companies or tickers for bad and good signals.
- Know what to focus on.
- See trends and patterns for companies and sectors.
- Benefits: Increase efficiency, be proactive.



Use Case #2: Better Credit Risk Management

- More easily monitor issuers of holdings to see bad and good occurrences.
- Reduce downgrade surprises, be ahead of the curve.
- See negative trends earlier with history and comparison to peers.
- Benefits: Reduce operational risk, increase efficiency, be proactive.



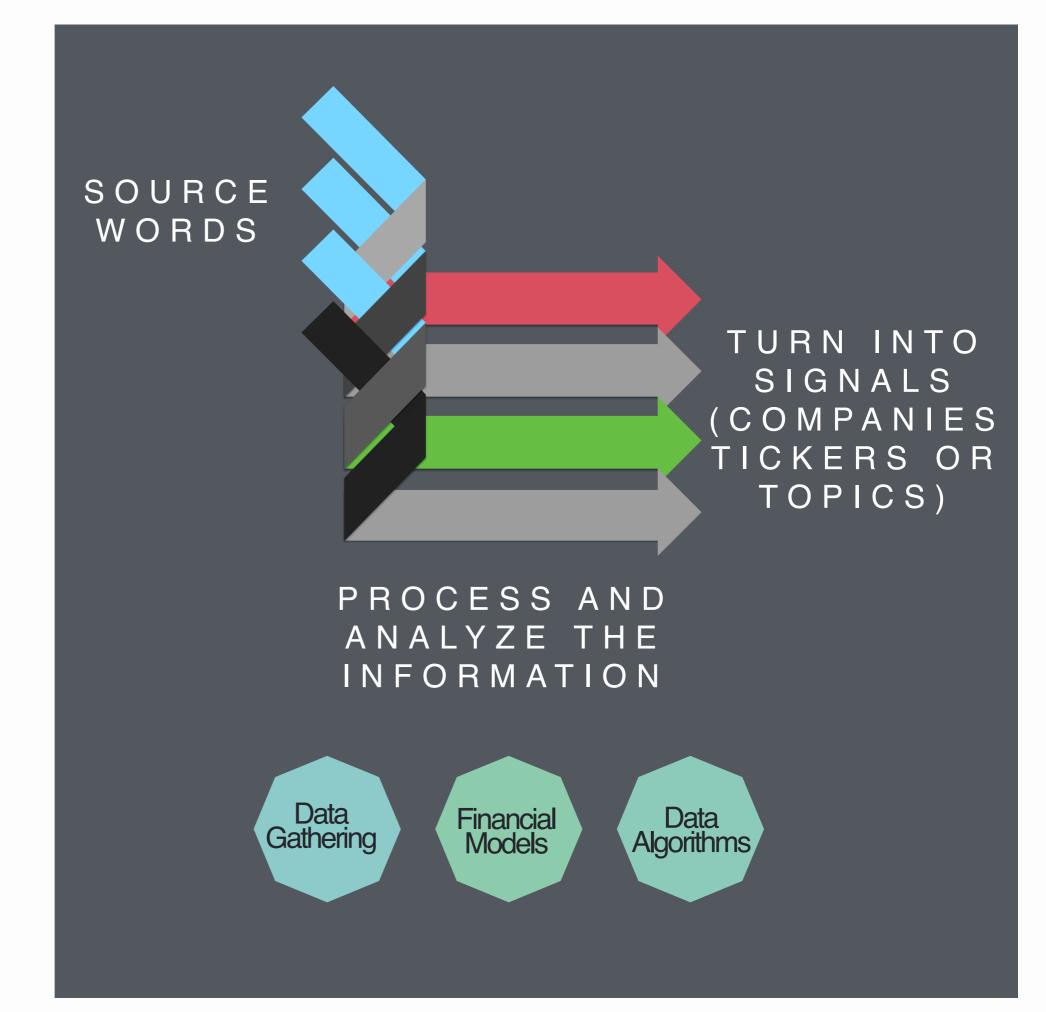
Use Case #3: Proactive Mining of internal documents for risk and compliance (email, loan agreements, etc.)

- Proactively identity issues.
- Respond better to legal issues.
- Reduce manual human review of paper documents by external attorneys.
- See trends and patterns to catch issues earlier.
- Benefits: Potential cost savings: \$\$\$ Millions of dollars, get sued less.

And many more possibilities ...



How The Tech Works





Step 1:

Ignore Jargon





Step 2:

Be Strategic:

Decide to Ride the Jet, not Build It





Step 3:

Focus on Business Problem or Opportunity

- Cost efficiencies
- Drive revenue
- Compliance Risk management Innovation





Step 4:

Ask Key Questions



- Can somebody mine data for me and provide as a service, via signals?
- · Can I easily consume the signals (API, app, or both)?
- Does it have built in understanding of financial terminology?
- Does it have comprehensive coverage for the data set I am evaluating?
- Can I find an engine to surface patterns in my own data?
- Can I easily mix different data sources together?



Summary:

- Leverage unstructured data in finance because it unlocks opportunities and solves problems in new ways.
- Unstructured data represents most of the data available but it is hard to make it usable.
- You need the data in the form of signals and patterns.
- You can use public data or mine your own.
- Many use cases: Equity analysis, credit risk, proactive compliance, and many more.
- Follow our steps to get there 1) Ignore jargon 2) Be strategic ride the jet don't build it 3) Focus on biz problem or opportunity 4) Ask key questions.



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