LEVERAGING SPARK TO DEMOCRATIZE DATA FOR OMNI-COMMERCE JUNE 7,2017

SHAFAQ ABDULLAH, DATA SCIENCE @HONEST



- Serial Tech Entrepreneur, Heading Data Engg at Honest.
- Cofounder & CTO at Insnap
- Led Realtime Analytics platform at GREE.
- Pivotal in Zenprise (acquired by Citrix)
- Cloud and Mobile Platform Engg at Nokia
- MS from Tampere Univ of Tech
- ▶ 10 patents in areas of Enterprise Security-aaS, BigData, ML



Print edition

Q Search

The world's most valuable resource is no longer oil, but data

The data economy demands a new approach to antitrust rules



May 6th 2017









A NEW commodity spawns a lucrative, fast-growing industry, prompting antitrust regulators to step in to restrain those who control its flow. A century ago, the resource in question was oil. Now similar concerns are being raised by the giants that deal in data, the oil of the digital era. These titans-Alphabet (Google's parent company), Amazon, Apple, Facebook and

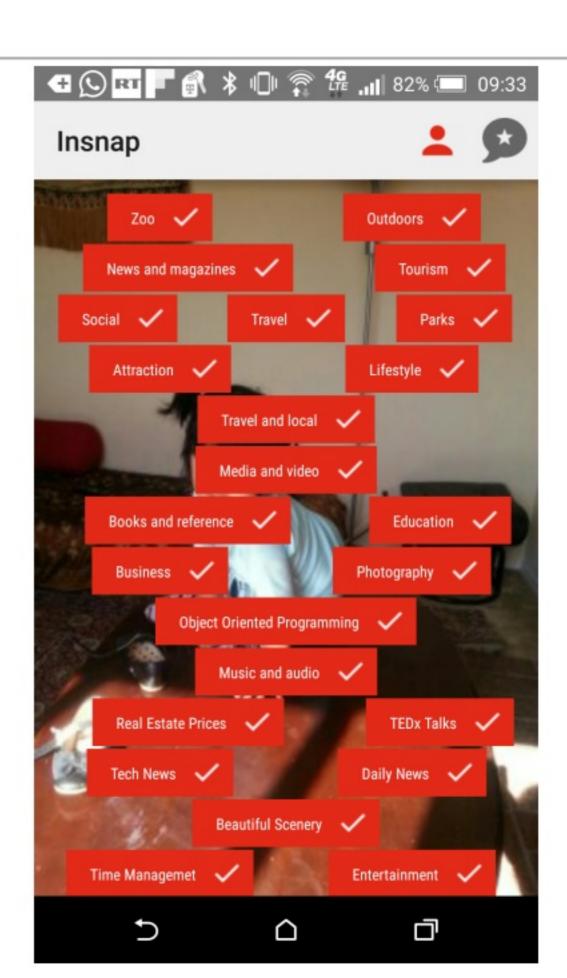
AGENDA

- Status quo at Honest (pre Insnap)
- Data Initiatives
- Alignment of Team, Culture, Tech
- Sparking Tech
- Conclusions

INSNAP- INSTANTANEOUS PERSONAS

Problem: Beating Cold-Start

 Product: Multitenant SaaS ML API to drive monetization & engagement by interest inference



THE MISSION-DRIVEN

- Honest is dedicated to providing trusted, effective products across a wide range of consumer categories, including baby, beauty ,personal care, home care, and vitamins & supplements.
- Bundle based Subscription Model for e-commerce



Diapers & Wipes Bundle



Honest Essentials Bundle

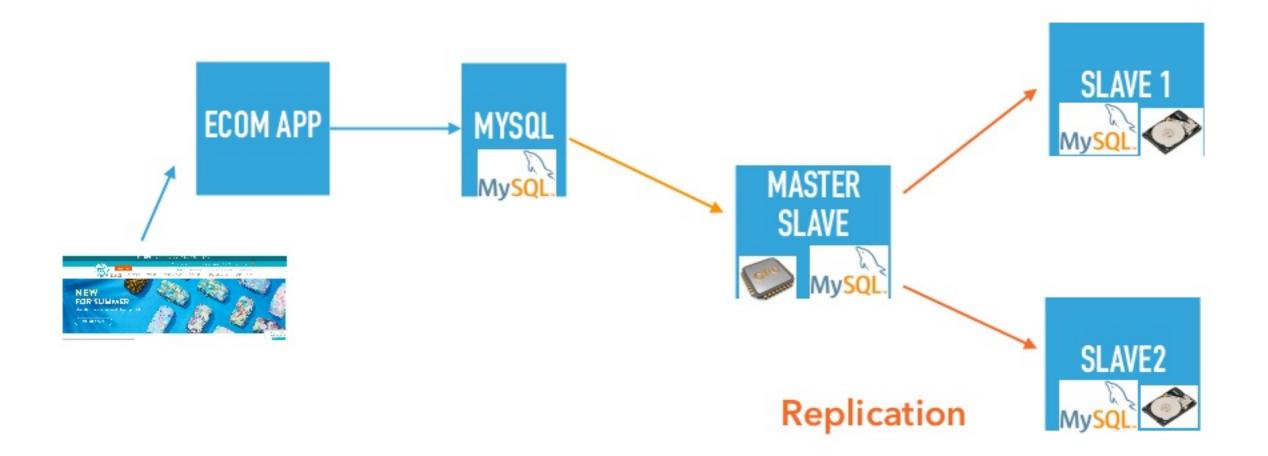
STATUS QUO AT HONEST (PRE-INSNAP)

Silo'd data and org

Data Integrity?



Great potential to become data-driven



INSNAP ACQUISITION BY HONEST







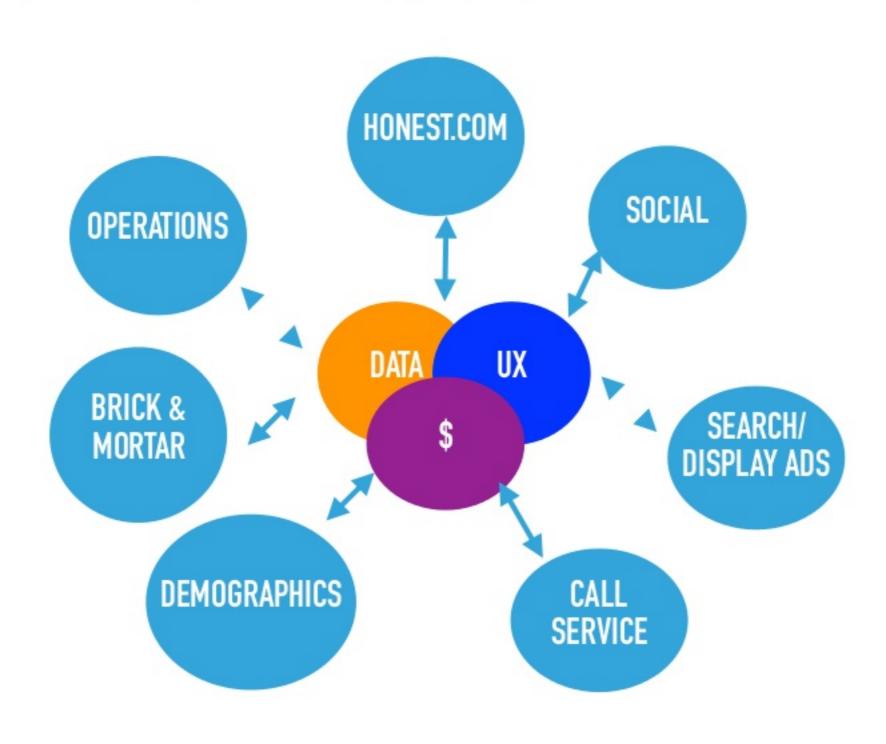
DATA INITIATIVES

- Break away data and org silos
- Instrument logging
- Use ML to turn data into actionable insights
- XFunctional teams aligned to business goal
- Self-Served Model for decision-making folks

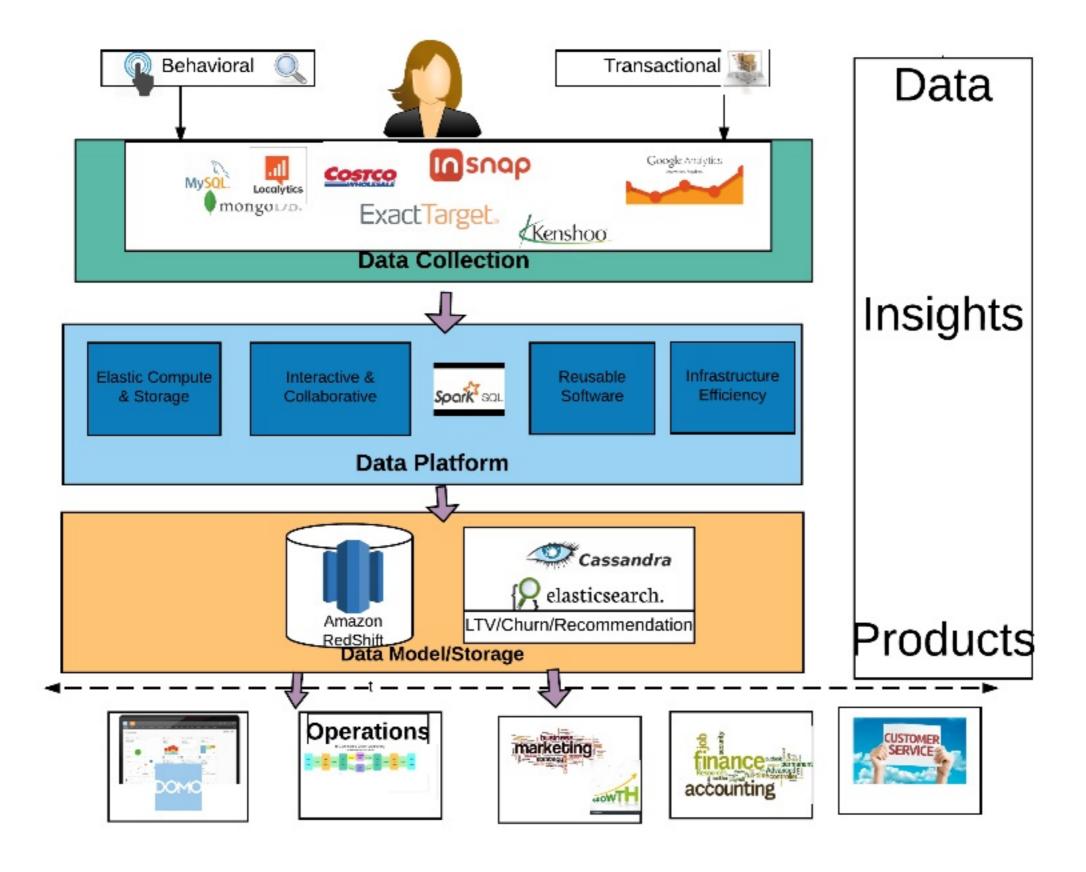
CULTURE

- What cannot be measured, cannot be improved
- Transparency around decision-making
- Empower users via self-served platform
- ▶ Fail-fast

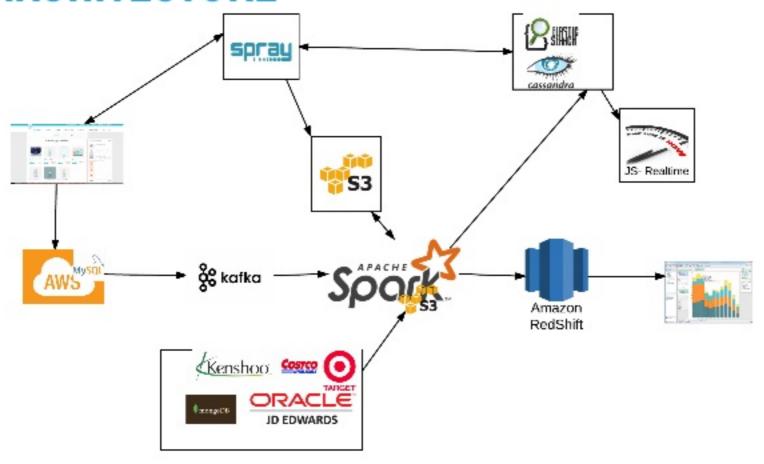
DATA DRIVES OMNI-CHANNEL SOLUTION



DATA PLATFORM



NEW ARCHITECTURE



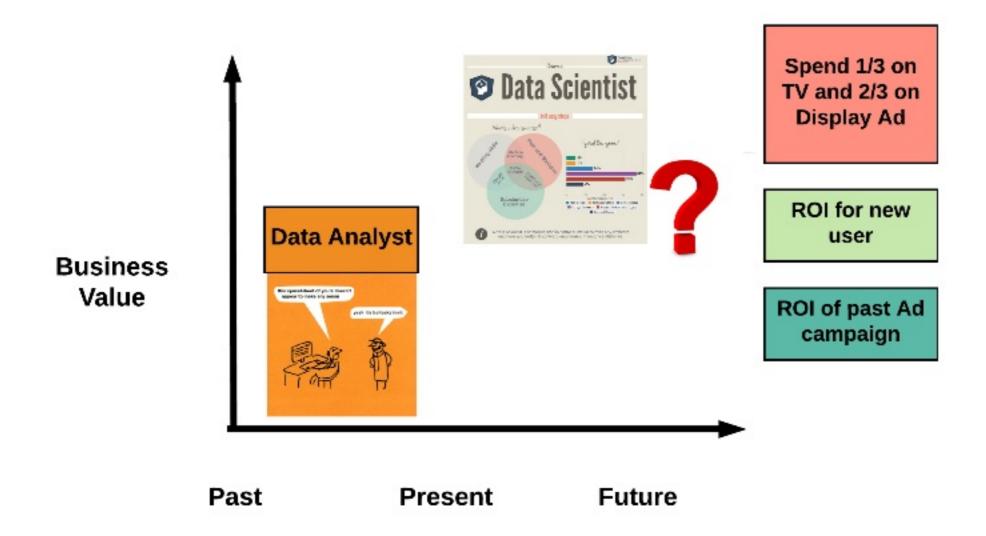
- 100M+ Monthly Events
- 100s Device Types
- S3 datalake 50TB

- Spark is 10x faster
 at computing than
 legacy
- Used for Scoring

Models

ADVANTAGES OF SPARK & DATABRICKS

- Scaling code, scaling teams
- Elastic Store & Compute Spark
- Collaborative & Interactive
- Infrastructure Efficiency





- Invest in Infrastructure & People
- Embed Analytics in Business & Org
- Keep calm and let the Data speak

THANK YOU -

@shafaq110

Questions