Fatafat : फटाफट

Unleashing the potential of real-time analytics

July 2016 George Depastas, Head of Product - Real-Time Big Data Analytics



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This presentation

- Barclays' journey to become the Intelligent Bank utilising OS technologies
- Fatafat, In-House Real-Time Decisioning Engine, as a driver of business impact
- Pronto, In-House Real Time Social Media Analytics Product
- Q&A

Opinions expressed in this presentation do not necessarily reflect those of Barclays PLC



Intelligent Banking

Customers have access to more options than before, to succeed retailers, businesses alike will need to flex to a new landscape of personalisation and relevant engagement.



Next generation experiences are using omni-channel experiences to drive customer satisfaction, loyalty, retention and growth and tackle this new range of problems.

.....Giving the right product, to the right customer, at the right time.



The 20X Story

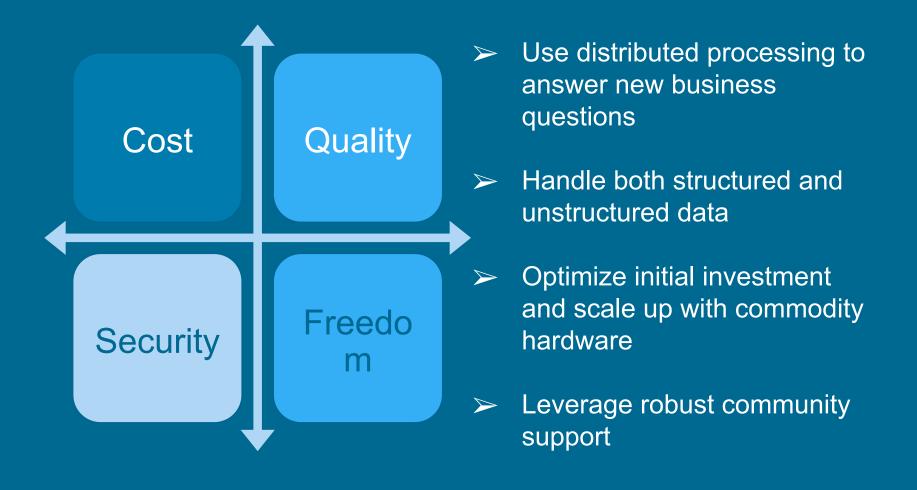
Our journey from being product-centric to customer-centric





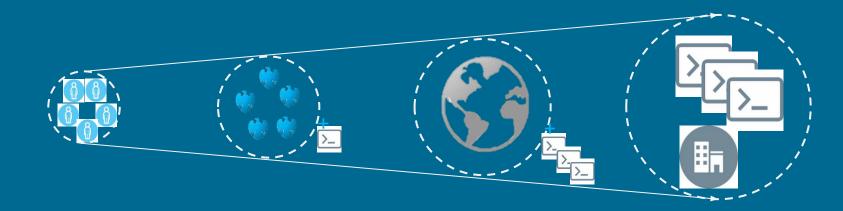


Why Open Source





Open Source at Barclays and Beyond



 Small team
Seed money
1 Use Case

Internal Network

External Network **Partnerships**



Technology drivers

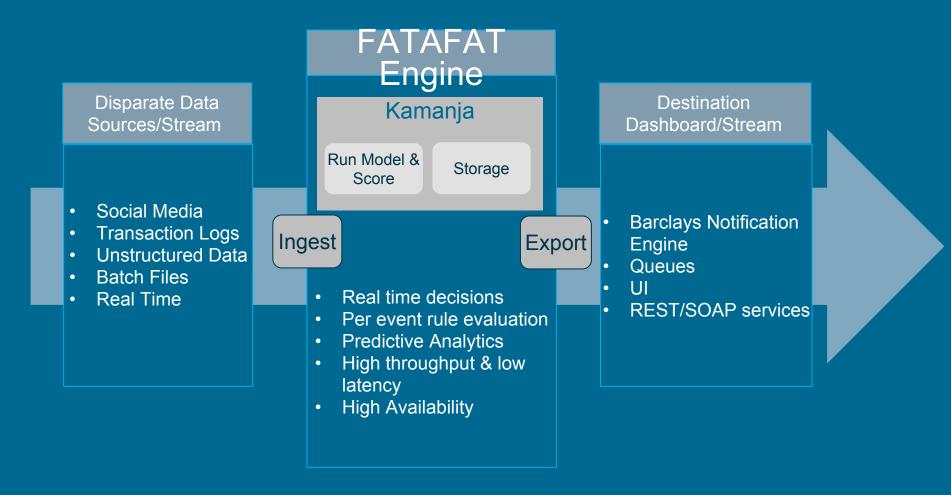
Big data driving real-time decisions Extensible adapters for multiple inputs/outputs

Language-agno stic rule-based models

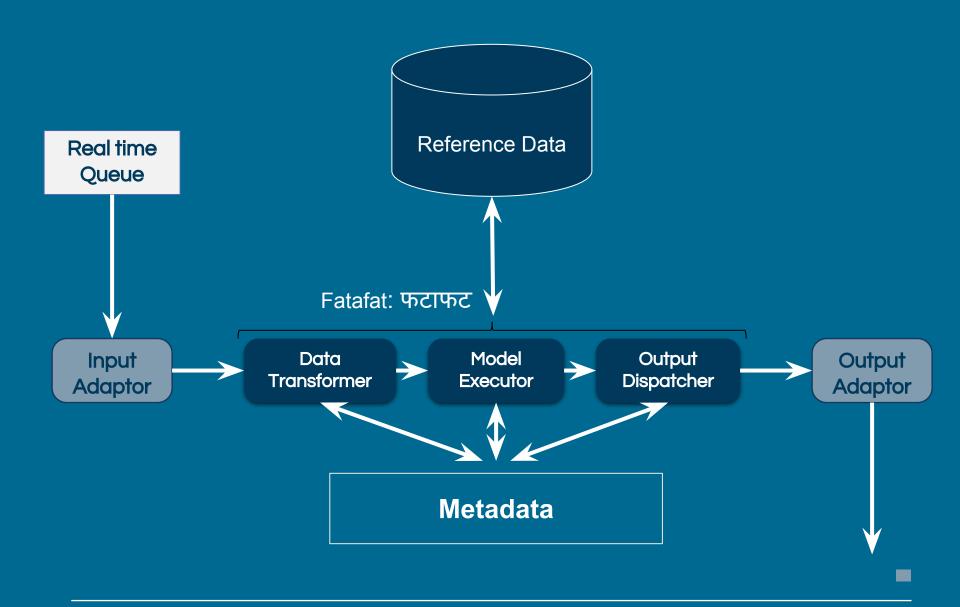
Interoperabilit y with wide range of open-source components Ability to integrate with systems for real-time as well as batch (reference) data



Fatafat High-Level Architecture



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Why do we need to analyse Social Media data?

- More than 2 billion people use social media networks- this equates to nearly 30% of people worldwide.
- Research shows that majority of customers expect their banking (or other commercial) problems to be solved within 24 hours, if not less than 5mins
- One key barrier found here is analysing this data and extracting insight at scale, and at the right time





Use of Social Media at the launch of Barclays Pingit

- Social media analysis was used to constantly monitor the reception of the product and respond to customers' needs
- Barclays would be able use this type of information on a continuous to understand what the requirements for future releases of the product should be



http://oursocialtimes.com/how-to-use-social-media-monitoring-for-a-product-launch/



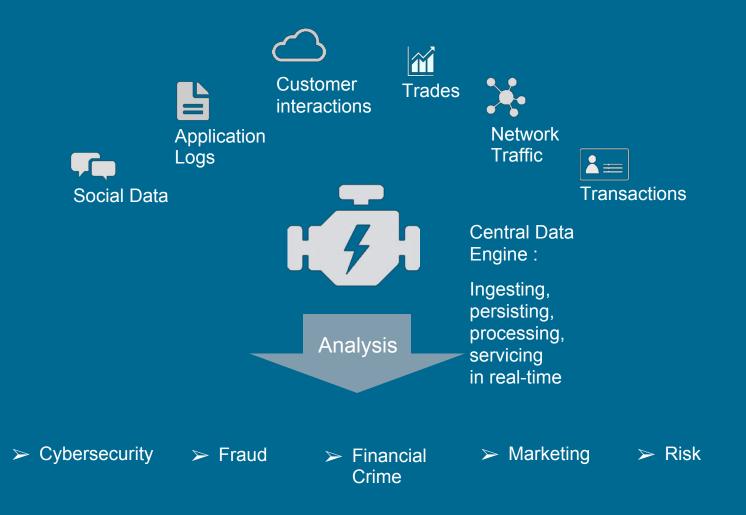
Aims of Natural Language Processing with Social Media Data

- Extract insights such as sentiment, key themes and other summaries of relevant social media posts
- Treat information from all sources in an appropriate manner to obtain appropriate context for the posts
- Enable relevant response to Social Media posts
- Understand brand awareness and reputation (share of voice, sentiment analysis, social engagement)
- Process vast amounts of unstructured data efficiently at scale

Pronto Benefits for the bank

- Bringing the voice of the customer closer to colleagues, taking lead times down to obtain customer feedback from weeks to seconds
- Enabling rapid deployment of new solutions in an agile fashion
- Full scalability from 10s of users to 1000s at a fraction of the cost
- Embedding data mining capability into a multitude of use cases

Wider applicability: Data Fusion



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Questions?



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