



Kafka Streams

Real-time Stream Processing

by

LEARNING JOURNAL

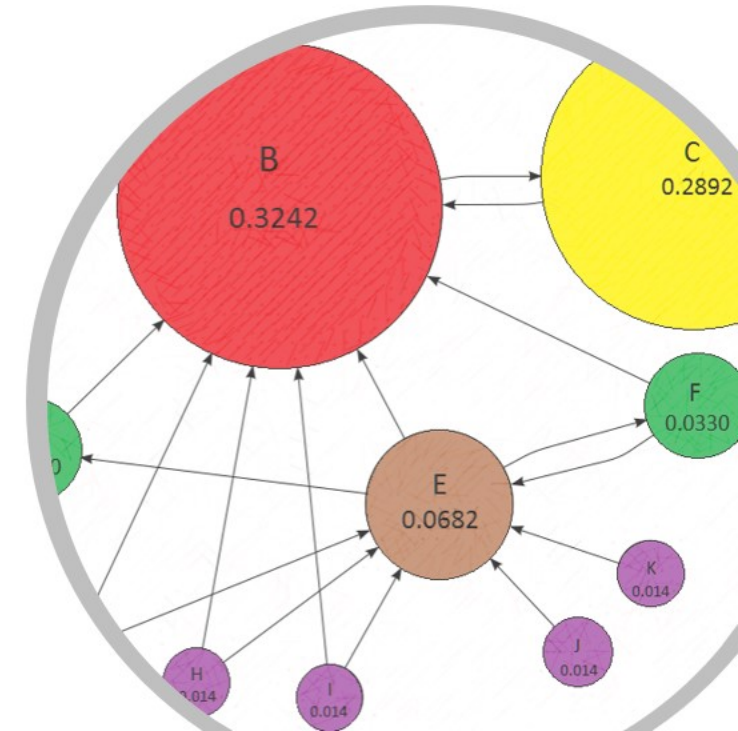
PageRank Algorithm



How it
started?

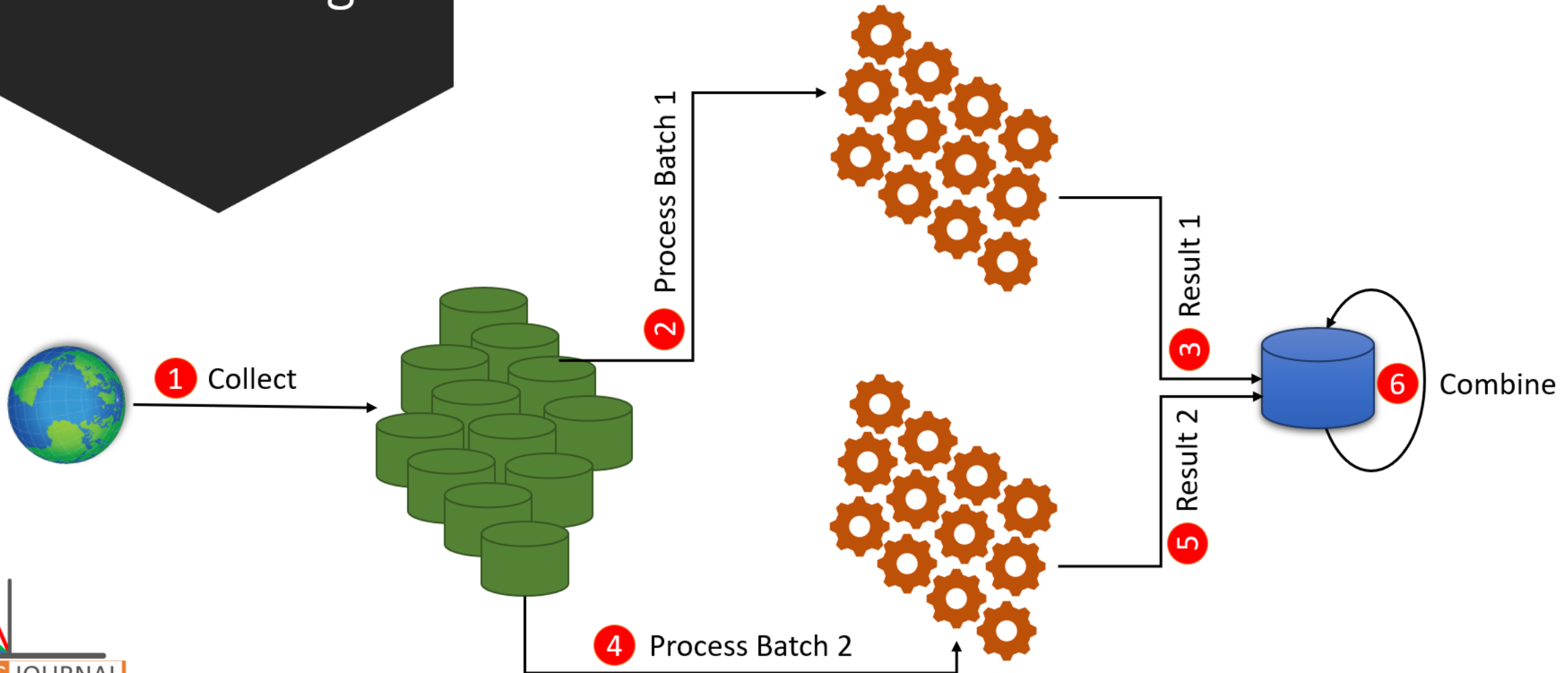
BIG DATA BORN

1. Domain Authority Links
2. Keywords & Metadata



Batch Processing

Minutes to Hours

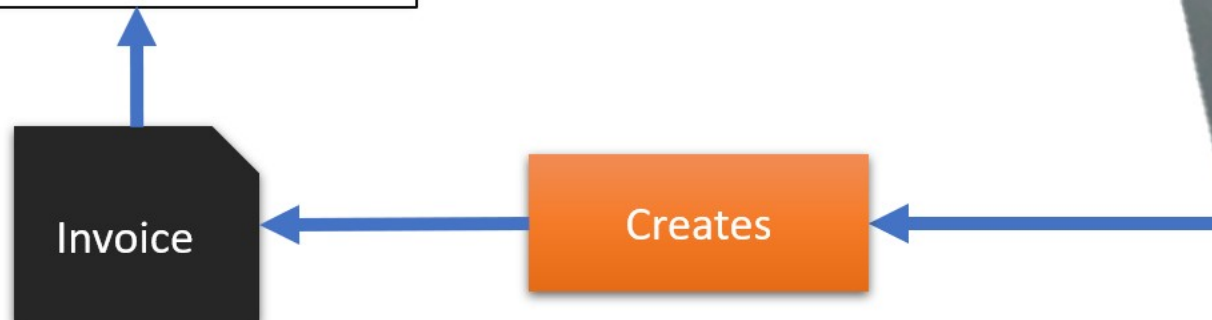


Real-time Processing



Identifying & Modeling Events

```
{
  "InvoiceNumber":123456,
  "CreatedTime":246744579753,
  "StoreID":"STR1534",
  "PosID":"POS364",
  "CashierID":"OAS898",
  "CustomerType":"NONPRIME",
  "CustomerCardNo":"3006055636",
  "DeliveryType":"HOME-DELIVERY",
  "DeliveryAddress":{
    "AddressLine":"7418 Dolor St.",
    "City":"Nagpur",
    "State":"Maharastra",
    "PinCode":"710782",
    "ContactNumber":"3018429913"
  },
  "InvoiceLineItem":{
    "ItemCode":698,
    "ItemDescription":"Meat grinder",
    "ItemPrice":1250,
    "ItemQty":1
  }
}
```



POS Operator

Stream Processing Use Case - Categories



Incremental ETL



Real-time
Reporting



Real-time Alerting



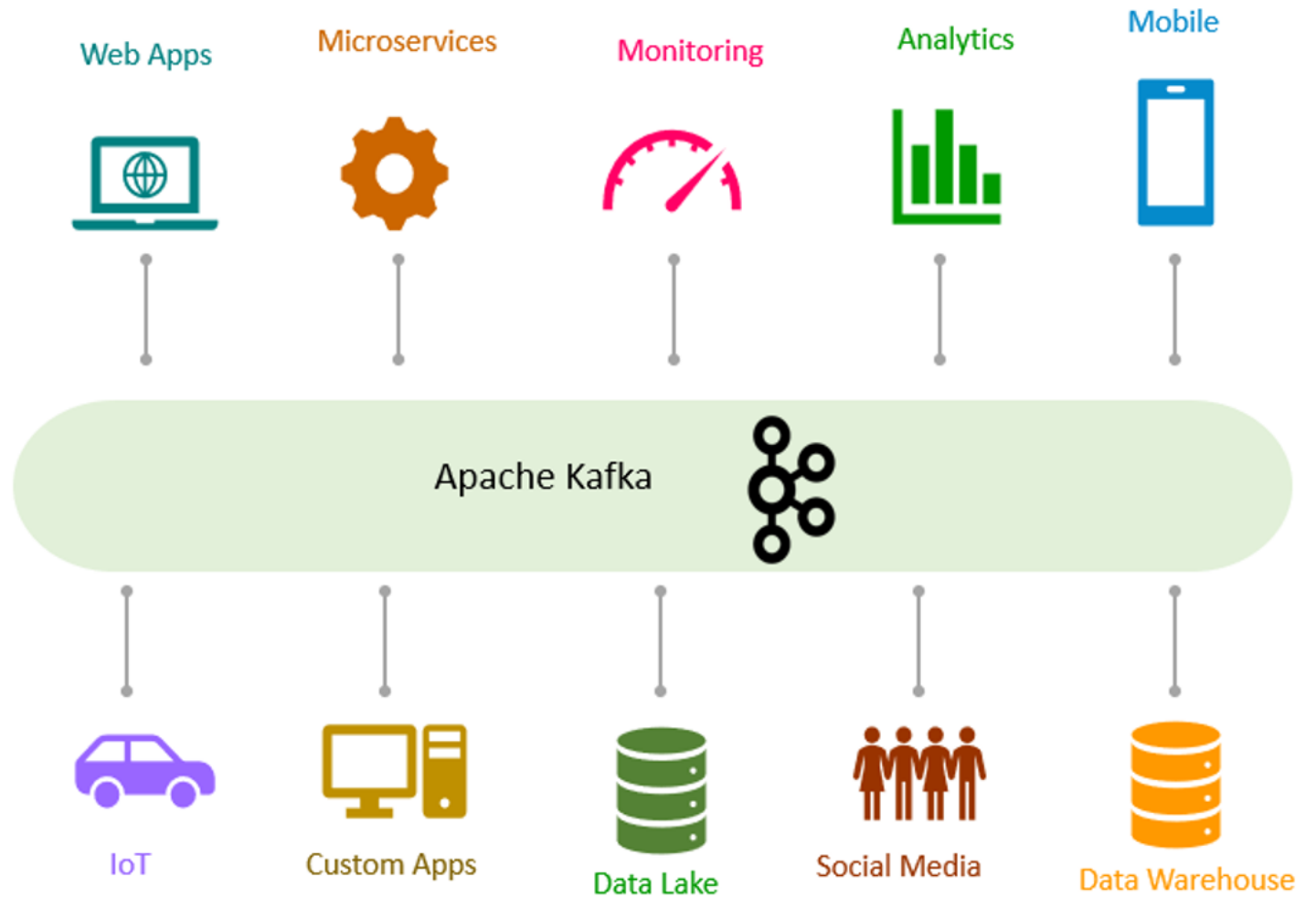
Real-time Decision
Making and ML



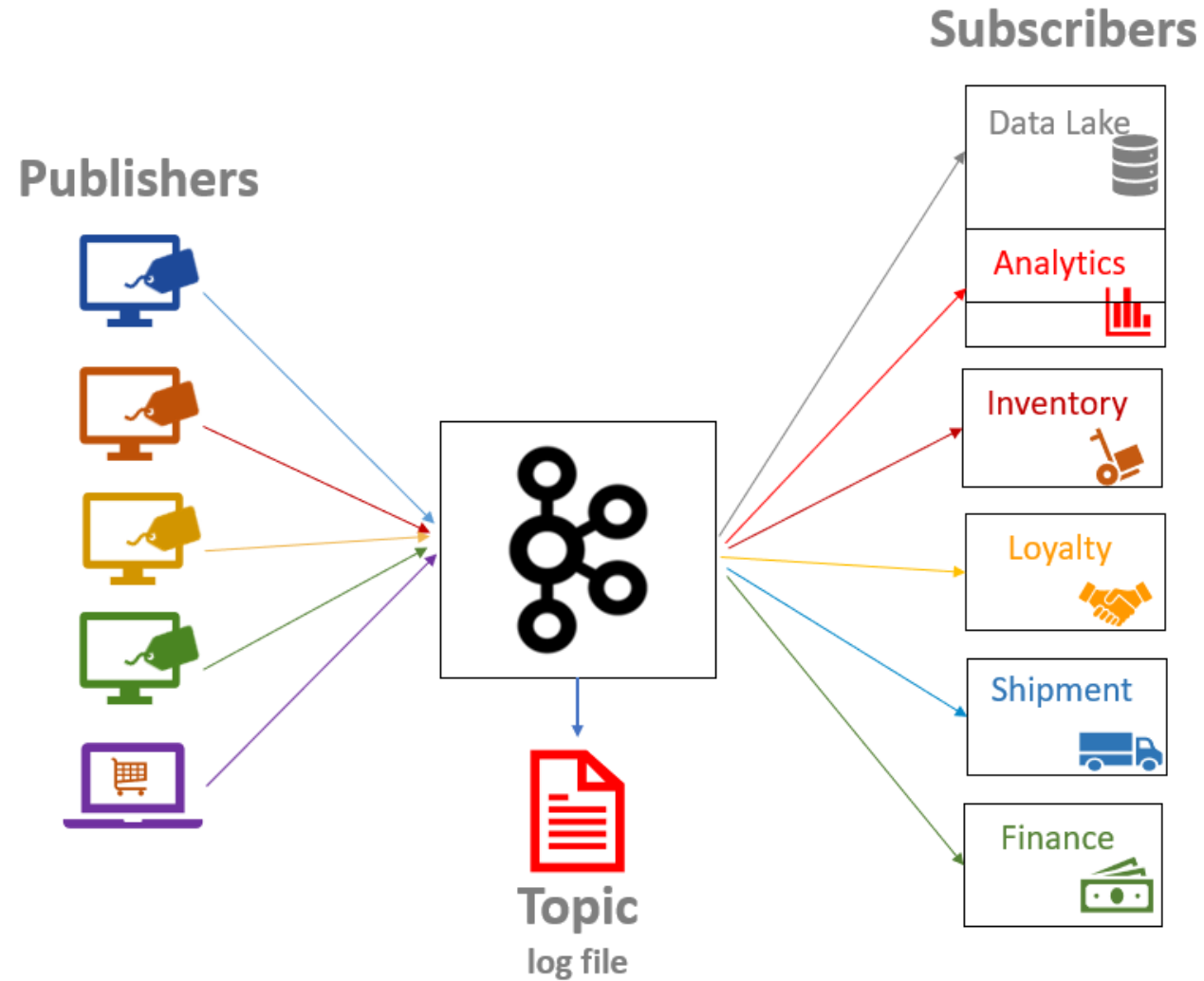
Online Machine
Learning and AI

Publish/Subscribe Messaging

1. Time sensitivity
2. Decoupling
3. Data format evolution
4. Reliability
5. Scalability



Publish/Subscribe Messaging





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