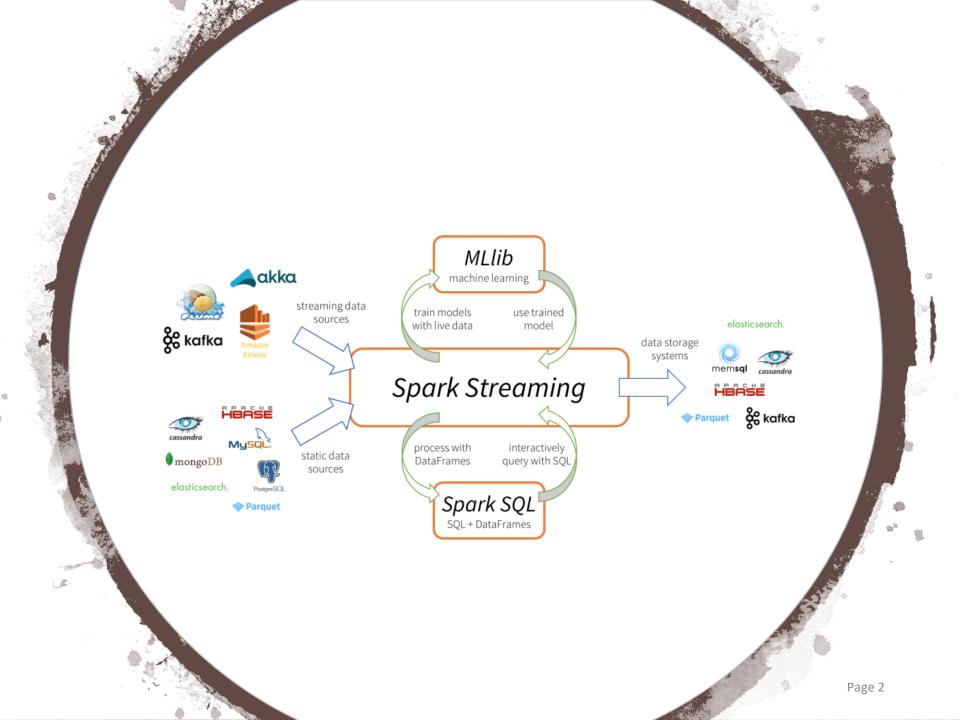
# PROCESSING OF BIG DATA SPARK SESSION-4





#### **Agenda**

Unstructured Streaming

Structured Streaming

Deploying Scala code in production

### **Unstructured Streaming**

- Source
  - Socket: exercise 1
  - File: exercise 2
  - Kafka: exercise 3
- Sink
  - File: exercise 4
  - Database: exercise 5

# **Unstructured Streaming: Cont...**

- ETL on streaming data
  - Transform operation: exercise 6

- Checkpoint for restartability
  - Metadata checkpoint: exercise 7
  - Data checkpoint: self study

- Social media feed processing
  - Twitter feed analysis: self study

# **Structured Streaming**

- Source
  - Socket: exercise 8
  - File: exercise 9
  - Kafka: exercise 11
- Sink
  - File: exercise 10
  - Kafka: exercise 12, exercise 13 (self study)

# Structured Streaming: Cont...

- ETL
  - Apply all possible transformation as you do on normal dataframe: exercise 14
- Window aggregation
  - Analyze aggregated data over a period of time: exercise 15

 https://spark.apache.org/docs/latest/streamingprogramming-guide.html

 https://spark.apache.org/docs/2.4.0/structuredstreaming-kafka-integration.html

 https://spark.apache.org/docs/latest/structuredstreaming-programming-guide.html

