Jaipur Engineers
Your One-Stop IT & Staffing Ecosystem

JAVA

Kafka with Java

SAMPLE PROJECT

Order Status Stream



COURSE FEE

Fee on enquiry

JAIPUR, RAJASTHAN

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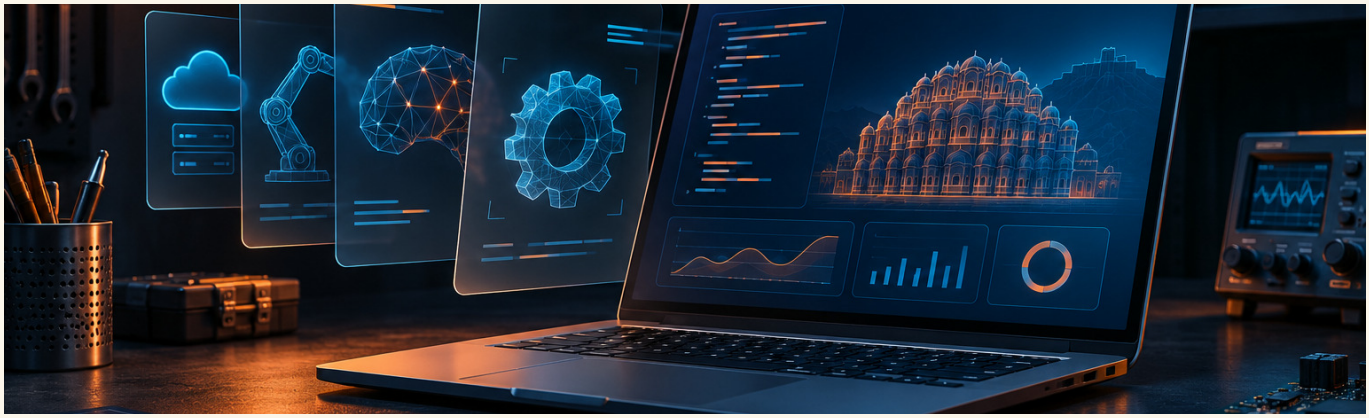
Kafka with Java

Core concepts



01 Topics, partitions, brokers and offsets

02 Java producers, keys and serialization

03 Consumers, groups and delivery semantics

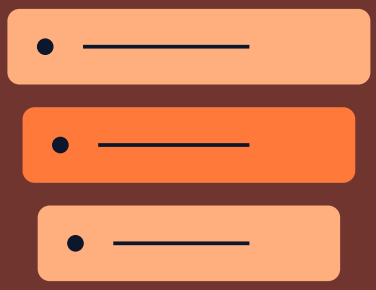
Model the domain

Identify data, actions and boundaries before writing the first class.

Kafka with Java

Applied skills

- **Model**
- **Execute**
- **Verify result**



04 Retry handling, duplicate events and idempotency

05 Schema evolution and stream-processing concepts

06 Lag metrics, integration tests and deployment review

PROJECT DELIVERABLES

A runnable Java project, test results and notes on design and error handling.

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Portfolio project

Order Status Stream

Publish sample order events and build a consumer that handles duplicates and restarts safely.

ILLUSTRATIVE PROJECT SKETCH

SCENARIO		EXPECTED EVIDENCE
01>	**Model**	Sample input or fixture
02>	**Execute**	Record the observed result
03>	**Verify result**	Compare against expectations

Model the domain

Identify data, actions and boundaries before writing the first class.

Check a failure

Write a test for a rejected operation and confirm the data stays consistent.

A runnable Java project, test results and notes on design and error handling.

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Course fees

COURSE FEE

Fee on enquiry

Ask admissions for the course fee, available batches and enrolment details.

ADMISSIONS

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122/228, Indra Path, Thadi Market

Mansarovar, Jaipur, Rajasthan 302020

SCAN FOR MAP

Check course details

Kafka with Java

Course content

MODULES 01–02

01

Lessons & practice

- Topics
- Partitions
- Brokers
- Offsets

HANDS-ON

Create a practice topic and describe how records map to partitions and offsets.

02

Lessons & practice

- Java producers
- Keys
- Serialization

HANDS-ON

Publish keyed order events from Java with a repeatable record format.

Kafka with Java

Course content

MODULES 03–04

03

Lessons & practice

- Consumers
- Groups
- Delivery semantics

HANDS-ON Consume a sample batch and restart a consumer to observe offset behaviour.

04

Lessons & practice

- Retry handling
- Duplicate events
- Idempotency

HANDS-ON Feed duplicate events and verify an idempotent update produces one result.

Kafka with Java

Course content

MODULES 05–06

05

Lessons & practice

- Schema evolution
- Stream-processing concepts

HANDS-ON

Extend an event format and confirm how an older consumer handles compatible fields.

06

Lessons & practice

- Lag metrics
- Integration tests
- Deployment review

HANDS-ON

Check consumer lag and run a local integration test before explaining deployment trade-offs.