

# Apache Flink Training

## Course Content:

- Introduction to Stream Processing and Apache Flink
- Runtime Architecture
- Foundations of the DataStream API
- Data Pipelines and Stateful Stream Processing
- Event Time and Watermarks
- Process Functions, Side Outputs, and Timers
- Windows and Streaming Analytics
- State Backends
- Fault Tolerance
- Connector Ecosystem
- Application Evolution: Rescaling, Upgrades, State Migration
- Intro to Flink SQL and the Table API
- Use Cases and Application Patterns
- Testing