Toward an API-Driven Infinite Cyber-Screen for Custom Real-Time Display of Big Data Streams

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“The software libraries that are available at today are not suitable for displaying huge volumes of data in a single chart, because they require all the data to be collected at a single node.”

The proposed approach characterizes for being:
• Web-based
• API-based
• Cloud-based
• Portable
• Extendable
• Plug and play
and for relying on:
• Node-RED
• MQTT
• Scala
• Akka HTTP
• Spark
• Kafka
• Docker

Remarkably, the same network used for Big Data visualization can be extended and/or reconfigured from remote and used for (i) Big Data (streams) filtering, transformation, merge, analytics; (ii) training Machine Learning models; (iii) storing trained models on a Cloud storage; (iv) using stored models for one shot or stream predictions; (v) much more.

Read from the same authors & J. Morgan:
• Ubiquitous System Integration as a Service in Smart Factories
• Advanced Analytics as a Service in Smart Factories

Data Injection for a proof of concept