

kokchun giang

building a modern data platform for streaming data

example robotic arm for welding needs temperature monitoring



requires temperatures within certain ranges

temperature measured with temperature sensor is sent to a data platform

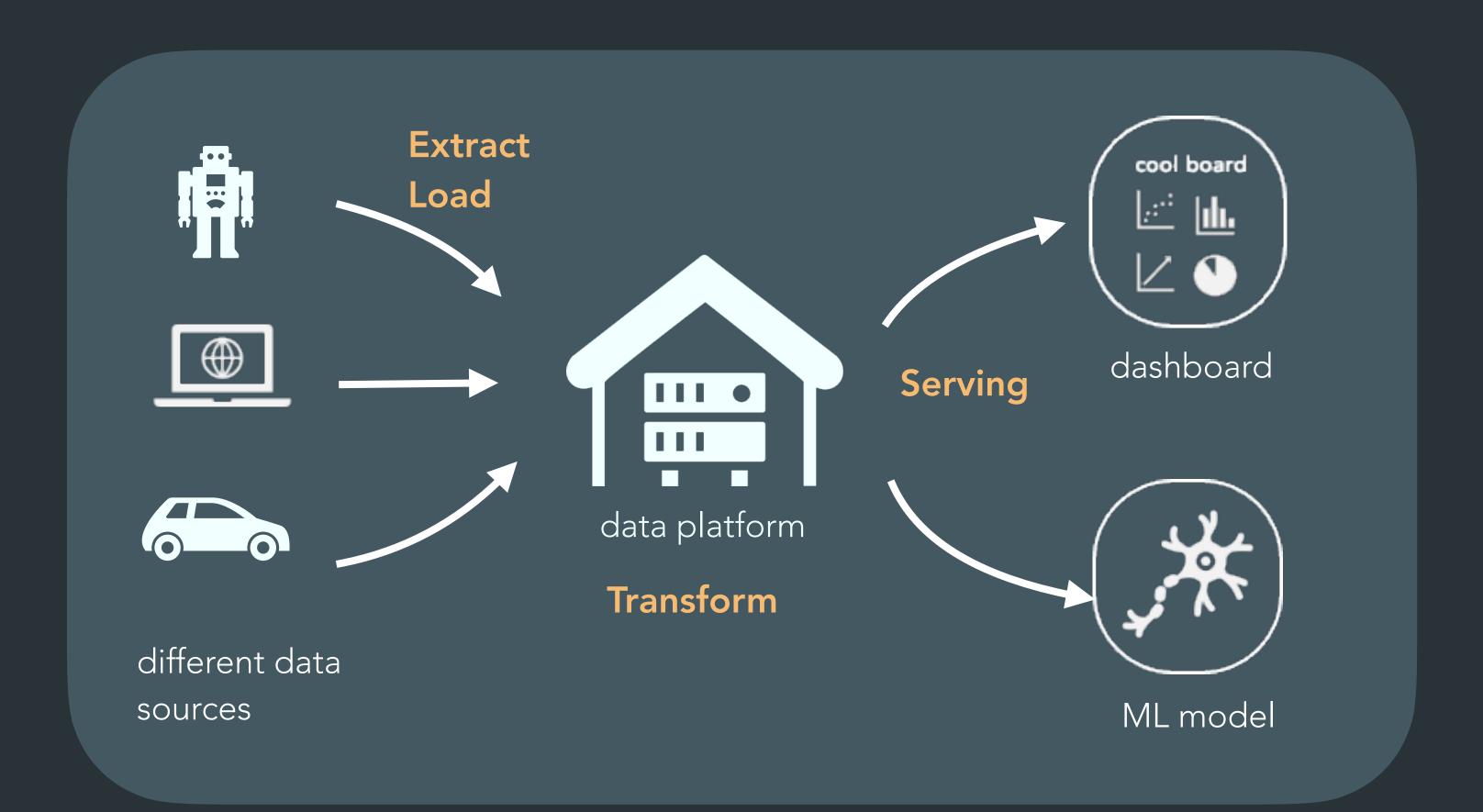
this is considered streaming data

streaming data vs batch data processing

		STREAMING	BATCH
DE	FINITION	real-time or near real-time processing	data stored and processed in batches at scheduled intervals
LAT	TENCY	low latency - miliseconds to seconds	higher latency - minutes to days, weeks
DA	TA SIZE	smaller chunks but high frequency	large volumes of data accumulated over time
USI	E CASE	real-time dashboards, fraud detection, IoT, anomaly detection	sales report, data warehousing, Bl dashboards, periodic backups
СО	MPLEXITY	higher due to real-time	lower complexity
СО	ST	higher	lower

which to choose depends on the business requirements

source data is streamed and processed in the data platform



the whole **pipeline**could also be
considered the data
platform

