

Lambda Architecture

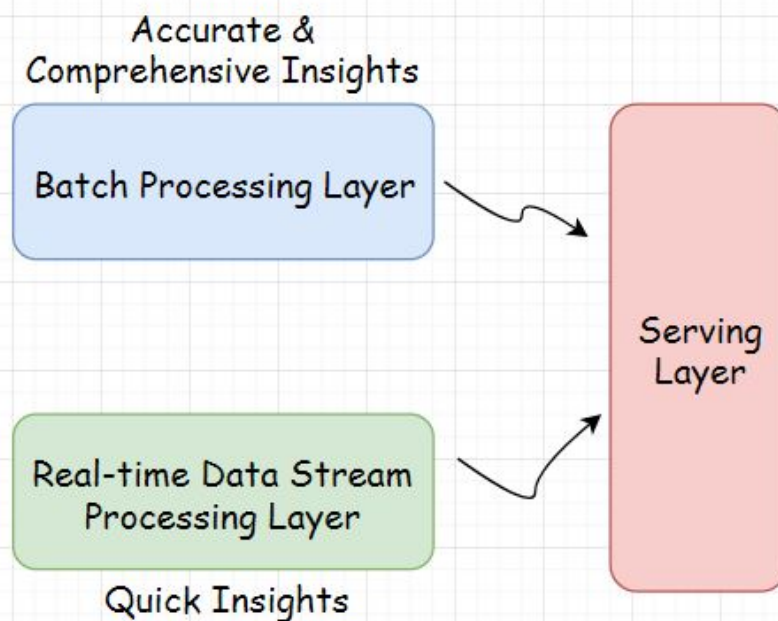
In this lesson, we will learn about Lambda Architecture of data processing.

We'll cover the following ^

- What Is Lambda Architecture?
- Layers Of the Lambda Architecture

What Is Lambda Architecture?

Lambda is a distributed data processing architecture that leverages both the *batch* & the *real-time* streaming data processing approaches to tackle the latency issues arising out of the *batch processing* approach. It joins the results from both the approaches before presenting it to the end user.



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Lambda Data Processing Architecture

Batch processing does take time considering the massive amount of data

businesses have today but with it the accuracy of the approach is high & the results are comprehensive.

On the contrary, *real-time streaming data processing* provides quick access to insights. In this scenario, the analytics is run over a small portion of data so the results are not that accurate & comprehensive when compared to that of the batch approach.

Lambda architecture makes the most of the two approaches.

Layers Of the Lambda Architecture

The architecture has typically three layers:

- Batch Layer
- Speed Layer
- Serving layer

The *Batch Layer* deals with the results acquired via batch processing the data. The *Speed layer* gets data from the real-time streaming data processing & the *Serving layer* combines the results obtained from both the *Batch* & the *Speed* layers.