Traditional off-line learning models:
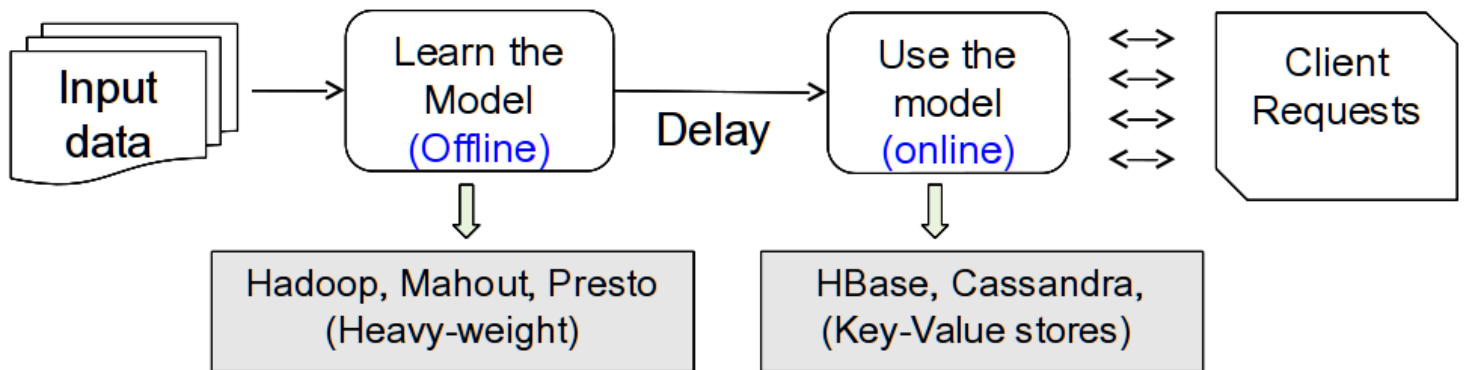
| Input data | → | Learn the Model (Offline) | Delay → | Use the model (online) | ⟷ ⟷ ⟷ ⟷ | Client Requests |

| Hadoop, Mahout, Presto (Heavy-weight) | HBase, Cassandra, (Key-Value stores) |

Online learning:

| Input data | → | Learn model (online) / Model / Use model (online) | ⟷ ⟷ ⟷ ⟷ | Client Requests |

Integrated Distributed Key-Value store with a stream processing engine
(Cassandra/HBase with Storm)