**Section 3.3 Notes**

**Links**

*The below resources are on more advanced topics that we will not be covering in the course*

If you are interested in reading more about the streaming approach (pattern 3 from the lecture), this is a useful primer on machine learning with Apache Kafka:

<https://www.confluent.io/blog/using-apache-kafka-drive-cutting-edge-machine-learning>

And here are some code examples: <https://github.com/kaiwaehner/kafka-streams-machine-learning-examples>

Here is a tutorial on working with Apache Spark for large scale data processing:

<https://towardsdatascience.com/deep-learning-with-apache-spark-part-1-6d397c16abd>