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In this article, you'll learn how to use Apache Spark MLlib to create a machine learning application that does simple predictive analysis on an Azure open dataset. Spark provides built-in machine learning libraries. This example uses classification through logistic regression.

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The focus of Machine Learning with Apache Spark is to help us answer these questions in a hands-on manner. We introduce the latest scalable technologies to help us manage and process big data. We then introduce advanced analytical algorithms applied to real-world use cases in order to uncover patterns, derive actionable insights, and learn from this big data.

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In the spirit of Spark and Spark MLib, it provides easy-to-use APIs that enable deep learning in very few lines of code. It focuses on ease of use and integration, without sacrificing performance. It's built by the creators of Apache Spark (which are also the main contributors) so it's more likely for it to be merged as an official API than others.

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Apache Spark is a unified analytics engine for big data processing, with built-in modules for streaming, SQL, machine learning and graph processing.

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If you want to get the most out of core Spark for machine learning, extend Spark with your own feature engineering tools to algorithms, integrate Spark with deep learning, or deploy Spark models in low-latency production environments, this is the course for you.

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Apache Spark is a cluster computing framework designed for fast and efficient computation. It can handle millions of data points with a relatively low amount of computing power. Apache Spark is built on top of and is an extension of Hadoop's Map-Reduce, which efficiently uses different combinations of cluster computing.

Spark runs on Hadoop, Apache Mesos, Kubernetes, standalone, or in the cloud, against diverse data sources. You can run Spark using its standalone cluster mode, on EC2, on Hadoop YARN, on Mesos, or on Kubernetes. Access data in HDFS, Apache Cassandra, Apache HBase, Apache Hive, and hundreds of other data sources.

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