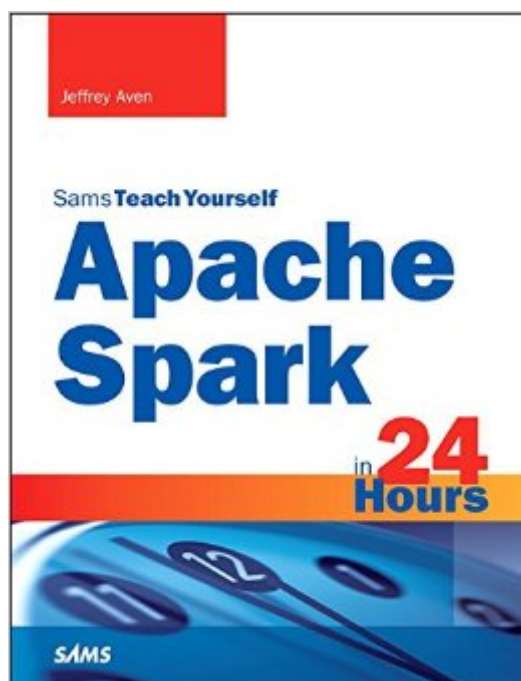# Apache Spark In 24 Hours, Sams Teach Yourself

Synopsis

Apache Spark is a fast, scalable, and flexible open source distributed processing engine for big data systems and is one of the most active open source big data projects to date. In just 24 lessons of one hour or less, Sams Teach Yourself Apache Spark in 24 Hours helps you build practical Big Data solutions that leverage Sparkâ ™s amazing speed, scalability, simplicity, and versatility. This bookâ ™s straightforward, step-by-step approach shows you how to deploy, program, optimize, manage, integrate, and extend Sparkâ "now, and for years to come. Youâ ™ll discover how to create powerful solutions encompassing cloud computing, real-time stream processing, machine learning, and more. Every lesson builds on what youâ ™ve already learned, giving you a rock-solid foundation for real-world success. Whether you are a data analyst, data engineer, data scientist, or data steward, learning Spark will help you to advance your career or embark on a new career in the booming area of Big Data. Learn how toâ ¢ Discover what Apache Spark does and how it fits into the Big Data landscapeâ ¢ Deploy and run Spark locally or in the cloudâ ¢ Interact with Spark from the shellâ ¢ Make the most of the Spark Cluster Architectureâ ¢ Develop Spark applications with Scala and functional Pythonâ ¢ Program with the Spark API, including transformations and actionsâ ¢ Apply practical data engineering/analysis approaches designed for Sparkâ ¢ Use Resilient Distributed Datasets (RDDs) for caching, persistence, and outputâ ¢ Optimize Spark solution performanceâ ¢ Use Spark with SQL (via Spark SQL) and with NoSQL (via Cassandra)â ¢ Leverage cutting-edge functional programming techniquesâ ¢ Extend Spark with streaming, R, and Sparkling Waterâ ¢ Start building Spark-based machine learning and graph-processing applicationsâ ¢ Explore advanced messaging technologies, including Kafkaâ ¢ Preview and prepare for Sparkâ ™s next generation of innovations Instructions walk you through common questions, issues, and tasks; Q-and-As, Quizzes, and Exercises build and test your knowledge; "Did You Know?" tips offer insider advice and shortcuts; and "Watch Out!" alerts help you avoid pitfalls. By the time you're finished, you'll be comfortable using Apache Spark to solve a wide spectrum of Big Data problems.

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