



3 Courses

Introduction to NoSQL
Databases

Introduction to Big Data
with Spark and Hadoop

Machine Learning with
Apache Spark



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Jianyang Wu

has successfully completed the online, non-credit Specialization

NoSQL, Big Data, and Spark Foundations

The earner of this certificate has demonstrated mastery of fundamental NoSQL and Big Data skills. This includes working with NoSQL databases- MongoDB, IBM Cloudant, & Apache Cassandra - to perform tasks like CRUD operations. As well as foundational knowledge of Big Data tools & ecosystem including Apache Hadoop, Apache Hive, HDFS, MapReduce, Apache Spark, Spark SQL, Spark Structured Streaming, Spark ML, scaling Spark with Kubernetes, and Monitoring and Performance Tuning Spark jobs. This program focused on developing hands-on practical skills and culminated with a project involving ETL processing and Machine Learning model deployment using Spark. The learner is now proficient with the skills and knowledge for essential big data management tasks and challenges requiring NoSQL and Spark.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Rav Ahuja
Global Program
Director
IBM Skills Network

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