



**DATA**

**SCIENCE**



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**Hadoop  
Development**



# Hadoop Development

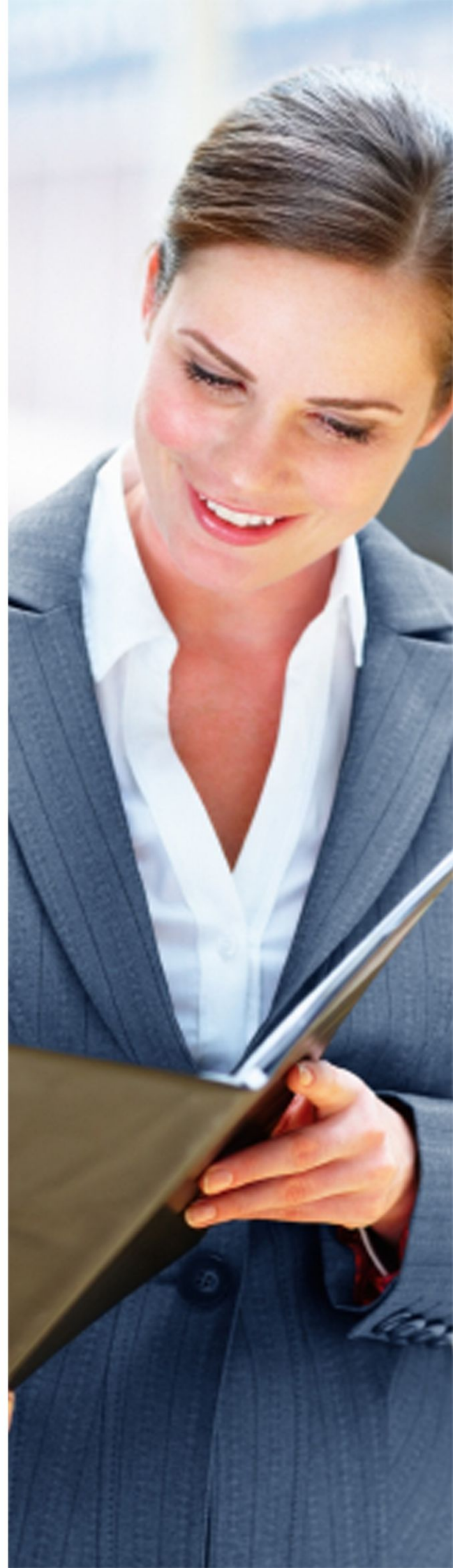
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# Hadoop Tutorial

Hadoop is an open-source framework that allows to store and process big data in a distributed environment across clusters of computers using simple programming models.

It is designed to scale up from single servers to thousands of machines, each offering local computation and storage.

## Hadoop - Big Data

Big data is a collection of large datasets that cannot be processed using traditional computing techniques.

It is not a single technique or a tool, rather it has become a complete subject, which involves various tools, techniques and frameworks.

**Black Box Data ?** It is a component of helicopter, airplanes, and jets, etc. It captures voices of the flight crew, recordings of microphones and earphones, and the performance information of the aircraft.

**Social Media Data ?** Social media such as Facebook and Twitter hold information and the views posted by millions of people across the globe.

**Stock Exchange Data ?** The stock exchange data holds information about the `buy` and `sell` decisions made on a share of different companies made by the customers.

## Hadoop - Big Data Solutions

an enterprise will have a computer to store and process big data. For storage purpose, the programmers will take the help of their choice of database vendors such as Oracle, IBM, etc. In this approach, the user interacts with the application, which in turn handles the part of data storage and analysis

This approach works fine with those applications that process less voluminous data that can be accommodated by standard database servers, or up to the limit of the processor that is processing the data.

when it comes to dealing with huge amounts of scalable data, it is a hectic task to process such data through a single database bottleneck.



## Hadoop - HDFS

Hadoop File System was developed using distributed file system design. It is run on commodity hardware. Unlike other distributed systems, HDFS is highly faulttolerant and designed using low-cost hardware.

HDFS holds very large amount of data and provides easier access.

To store such huge data, the files are stored across multiple machines.

These files are stored in redundant fashion to rescue the system from possible data losses in case of failure.

## Hadoop - HDFS Operations

Initially you have to format the configured HDFS file system, open namenode (HDFS server), and execute the following command.

After loading the information in the server, we can find the list of files in a directory, status of a file,

Assume we have data in the file called file.txt in the local system which is ought to be saved in the hdfs file system. Follow the steps given below to insert the required file in the Hadoop file system.

Assume we have a file in HDFS called outfile. Given below is a simple demonstration for retrieving the required file from the Hadoop file system.

## Hadoop - Command

There are many more commands in "\$HADOOP\_HOME/bin/hadoop fs" than are demonstrated here, although these basic operations will get you started.

Running ./bin/hadoop dfs with no additional arguments will list all the commands that can be run with the FsShell system.

Furthermore, \$HADOOP\_HOME/bin/hadoop fs -help commandName will display a short usage summary for the operation in question, if you are stuck.





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