



# Skillup Bharat

Training | Placements | Outsourcing

## BIG DATA ANALYTICS



# About Company

SkillUp Bharat is a leading platform that offer technical and non-technical courses designed to prepare students for industry challenges.

We provide internships, hands-on training, and placement opportunities, ensuring learners gain practical experience through real-time projects. Our programs focus on enhancing both technical and soft skills, making students job-ready.

## WHY TO CHOOSE US!

- 1. Industry-Relevant Courses**
- 2. Hands-On Internships**
- 3. Real-Time Project Experience**
- 4. Placement Support**

# Big Data Analytics Syllabus

Irrespective of their domain

## Description

**Big Data Analytics** is the process of examining large, varied data sets often called big data to uncover hidden patterns, correlations, market trends, and customer preferences that can help organizations make informed business decisions. This field combines statistical methods, programming, and technology tools to process vast amounts of data generated at high speed and variety. As data-driven decision-making becomes increasingly critical, Big Data Analytics has become a key driver for innovation and competitive advantage across industries.

At Skillup Bharat, our Big Data Analytics course provides comprehensive training in the core technologies and tools used in the industry, such as Hadoop, Apache Spark, Hive, and machine learning techniques. We focus on both theoretical knowledge and practical applications, ensuring students gain hands-on experience with real-world datasets.

By completing the Big Data Analytics course, learners will be equipped with in-demand skills to pursue a variety of roles, including Data Analyst, Big Data Engineer, and Data Scientist. Skillup Bharat's curriculum is designed to cater to beginners and professionals alike, ensuring that each participant can apply the latest analytics methods to real-world challenges, ultimately driving business value and growth.

# Expectations and Goals

- Develop Proficiency in Data Analysis Tools
- Understanding of Analytical Techniques
- Practical Application through Projects
- Comprehensive Understanding of Data Concepts
- Commitment to Continuous Learning
- Career Preparation and Certification
- Mastery of Data Visualization Techniques
- Understanding of Data Governance and Ethics
- Skill Development in Predictive Modeling

# Complete Big Data Analytics Bootcamp 2024

## Module 1: Fundamentals of Big Data

- Definition and characteristics of Big Data (Volume, Velocity, Variety, Veracity, Value)
- Importance and applications across industries
- Overview of the Big Data ecosystem

## Module 2: Data Storage and Processing

- SQL vs. NoSQL databases
- Introduction to the Hadoop Ecosystem: HDFS, YARN, MapReduce
- Setting up a Hadoop environment

## Module 3: Hadoop Programming

- Introduction to MapReduce
- Writing MapReduce programs in Java
- Debugging and optimizing MapReduce jobs

## Module 4: Apache Hive

- Hive architecture and its components
- Using HiveQL for data modeling and querying
- Data analysis with Hive

## Module 5: Apache Spark

- Introduction to Spark and its components (Spark Core, Spark SQL, Spark Streaming)
- Data processing with RDDs and DataFrames
- Writing Spark applications in Python/Scala

## Module 6: Data Ingestion Tools

- Introduction to Apache Sqoop and Flume
- Data ingestion techniques and best practices
- Hands-on projects using Sqoop and Flume

## Module 7: Data Analytics Techniques

- Understanding descriptive, predictive, and prescriptive analytics
- Tools for data analysis: Pandas, NumPy
- Statistical analysis and hypothesis testing

## Module 8: Data Visualization

- Importance of data visualization
- Tools for visualization: Tableau, Matplotlib, Seaborn
- Creating effective dashboards and reports

## Module 9: Introduction to Machine Learning

- Basics of machine learning: Supervised vs. Unsupervised learning
- Common algorithms: Linear Regression, Decision Trees, Clustering
- Using Spark MLlib for machine learning

## Module 10: Real-World Big Data Applications

- Case studies in finance, healthcare, marketing, etc.
- Building a Big Data solution for a real-world problem
- Group project: End-to-end implementation

## **Module 11: Capstone Project**

- Final project integrating all skills learned
- Presenting findings and insights

## **Module 12: Career Preparation**

- Resume building and interview preparation
- Networking and LinkedIn profile optimization
- Job placement assistance and strategies



## CONTACT US!



**CALL US ON :**  
**+91 6361987951**



**MAIL US ON :**  
**Info@skillupbharat.net**



**WEBSITE :**  
**Skillupbharat.net**



**LOCATION :**  
**Jayanagar 9th Block East End Circle**  
**Near Jaydeva Hospital, Bangalore 560041**

# THANK YOU

Master New Skills, Unlock  
New Opportunities!