

Training Programme for Government Officials (GoT-Advanced) on

BIG DATA & DATA SCIENCE

Under FutureSkills PRIME Scheme



Executive Director

Deepak Wasan

01881-257002

NIELIT Chandigarh in association with CDAC is organizing a five-day free of cost training programme on **Big Data & Data Science (BDDS)** for Government officials under FutureSkills PRIME Scheme.

About Training Programme

Government of India has sanctioned a project FutureSkills PRIME (Programme for Re-skilling/Up-skilling of IT Manpower for Employability), which will be implemented as a new Central Sector Scheme under the "Champion Services Sector Scheme (CSSS)". This project will be executed jointly by NASSCOM, NIELIT, and CDAC across PAN India as per the directions issued by the Ministry of Electronics and Information Technology (MeitY), Government of India. The project includes training programmes in ten emerging technologies, with **Big Data and Data Science (BDDS)** being one of the key areas of focus.

Chief Investigator

Anita Budhiraja

Additional Director

01881-257015,
9815988717

a.budhiraja@nielit.gov.in

Co-Chief Investigator

Dr. Sarwan Singh

Joint Director

9815621657

sarwan@nielit.gov.in

Objective of Training Programme

The objective of the training programme is to ensure continued relevance of Government officials in the rapidly advancing fields of **Big Data and Data Science (BDDS)**. This training will provide an in-depth understanding of the fundamentals of data analytics, machine learning, and big data tools. Participants will acquire knowledge on handling large datasets, performing data analysis using Python, and implementing data-driven decision-making for various applications in governance and public sector domains. The course aims to empower officials with the necessary skills to navigate and leverage the evolving technological ecosystem.

Speakers:

Anita Budhiraja

Dr. Sarwan Singh

Dr. Sharmistha

Target Audience

The training is for employees having prior experience in IT/ITeS & related areas and working in Central/State Governments, PSUs & Autonomous organizations.

Brief Contents

Day	Contents
1	Introduction to Big Data & Data Science, Hadoop Ecosystem (HDFS, YARN, MapReduce)
2	Introduction to Spark, DataFrames, Spark SQL, and Data Transformations
3	Introduction to NoSQL: MongoDB and CRUD Operations
4	Python for Data Science: Data Preprocessing, Cleaning, and Visualization
5	Machine Learning Algorithms: Regression, Decision Trees, Real-world Applications, and Capstone Project

Free of cost
Training for
Govt. officials
Limited Seats



Lead Centre : Centre for Development of Advanced Computing (CDAC), Pune

Co-Lead Centre : NIELIT Chandigarh

Ropar Campus: Bada Phull, Birla Farms, (near IIT Ropar) Ropar
Chandigarh: Facility at IETE Building, Sector 30B, Chandigarh



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NATIONAL INSTITUTE OF ELECTRONICS & INFORMATION TECHNOLOGY (NIELIT)

Ministry of Electronics and Information Technology (MeitY),
Government of India



BIG DATA & DATA SCIENCE

