



National Institute of Electronics and Information Technology Chandigarh

An Autonomous Scientific Society under the administrative control of
Ministry of Electronics & Information Technology (MeitY), Government of India

Permanent Campus at Birla Farms, Bada Phull, (adj. to IIT Ropar)
Rupnagar (Ropar)- 140001

BOOTCAMP

on

Big Data & Data Science

under FutureSkills PRIME Scheme





FutureSkills Prime, India's Technology Skilling Hub, is a joint initiative by NASSCOM & MeitY, Govt of India to enable digital skilling at scale. It aims to make India the Digital Talent Nation by democratising learning. With NASSCOM Certifications endorsing their technology skills, learners can open doorways to digital career opportunities.

Build the Skills to Rise with the Opportunity

Acquire interdisciplinary skills that combine technical expertise, IT skills and knowledge of digital technologies to pioneer transformation. Develop expertise for in-demand roles like data scientist, business intelligence analyst, full stack developer, information security analyst, machine learning engineer, etc.



FutureSkills PRIME – ten technologies

- | | |
|---------------------------|------------------------------|
| ✓ Artificial Intelligence | ✓ Cybersecurity |
| ✓ Virtual Reality | ✓ Internet of Things |
| ✓ Big Data Analytics | ✓ Web & Mobile Development |
| ✓ Blockchain | ✓ Robotic Process Automation |
| ✓ Cloud Computing | ✓ 3D Printing |

Bootcamp conducted since 2024

- ❖ SGTB Khalsa College, Sri Anandpur Sahib, Punjab
- ❖ Lamrin Tech Skills University, SBS Nagar, Punjab
- ❖ Chandigarh Group of Colleges (CGC), Landran Mohali, Punjab
- ❖ Khalsa College Garhdiwala, Hoshiarpur, Punjab
- ❖ CASSM - Institute for Development and Communication (IDC), Chandigarh
- ❖ Guru Kashi University, Talwandi Sabo, Bathinda, Punjab



For more details, visit
our website



**28 million
new tech jobs**
will be created in India
by 2025.

BOOTCAMP

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Executive Director

Deepak Wasan
Executive Director

01881-257002

NIELIT Chandigarh in association with CDAC is organizing five days free of cost Bootcamp on **Big Data & Data Science** for college students under FutureSkills PRIME Scheme.

Chief Investigator

Anita Budhiraja
Additional Director
01881-257015,
9815988717
a.budhiraja@nielit.gov.in

About Training Programme

This program provides a comprehensive understanding of **Big Data and Data Science**, with hands-on experience in tools like Hadoop, Spark, and Python. Participants will learn to analyze data and build predictive models for real-world applications.

Coordinator

Dr. Sarwan Singh
Joint Director
9815621657
sarwan@nielit.gov.in

Objective of Training Programme

The main objectives of the course were as follows:

- Understand the Big Data and Data Science Concepts and its usefulness in business.
- Get exposure on Data Science using Python.
- Analyze real world data with help of case study.

Speakers:

Anita Budhiraja
Dr. Sarwan Singh
Dr. Sharmistha

Target Audience

Any engineering/Science graduate with mathematics up to senior secondary.

Brief Contents

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| • Introduction to Big Data, Data Science, and industry applications |
| • Overview of Hadoop, Spark, HDFS, and NoSQL (MongoDB) |
| • Python for Data Analysis and Machine Learning |
| • Data cleaning, preprocessing, and statistical analysis |
| • Data Visualization using Python (Matplotlib, Seaborn) |
| • Machine Learning algorithms: Linear & Logistics Regression |
| • Introduction to Deep Learning: Neural Networks, ANN, CNN |
| • Capstone Project: Real-world data analysis and solution development |



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

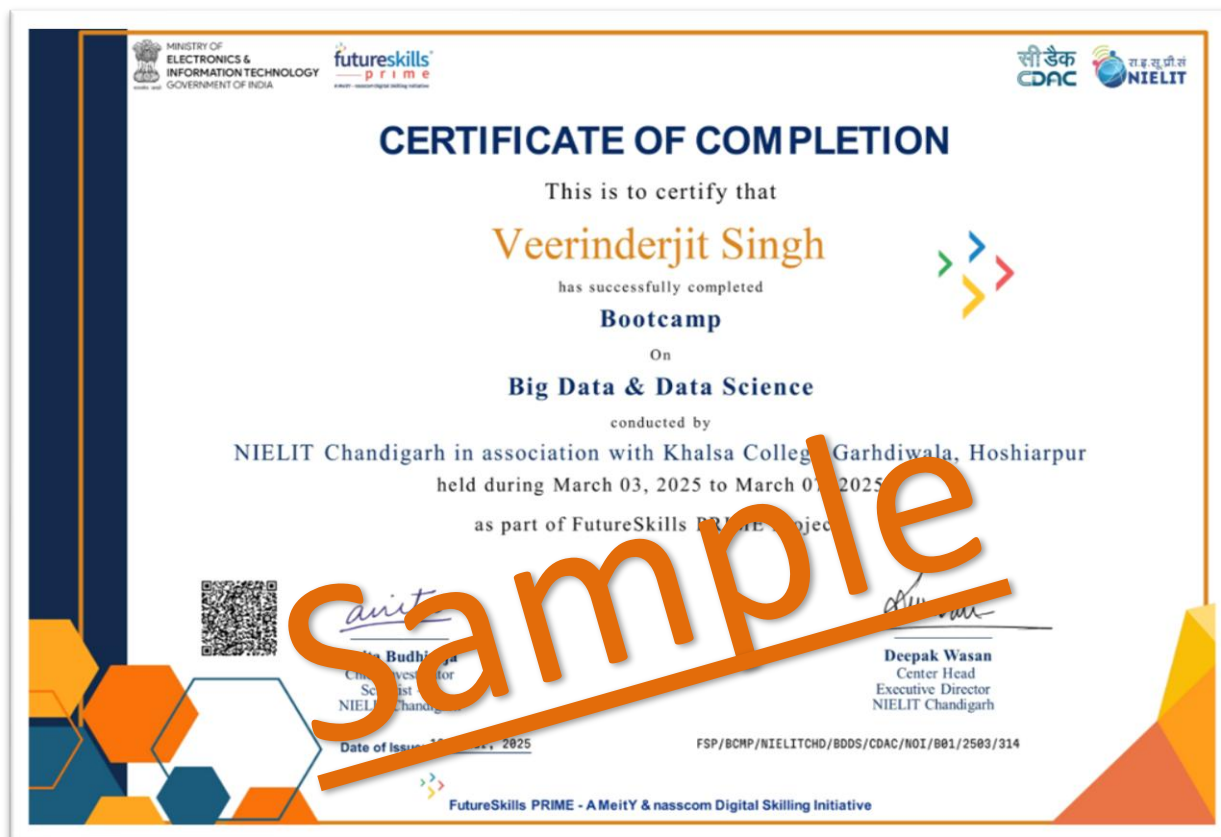
Co-Lead Centre : NIELIT Chandigarh

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



Bootcamp

Sample Certificate and ScoreCard



**NATIONAL INSTITUTE OF ELECTRONICS & INFORMATION
TECHNOLOGY (NIELIT)**

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

BIG DATA & DATA SCIENCE



BIG DATA

