



NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA

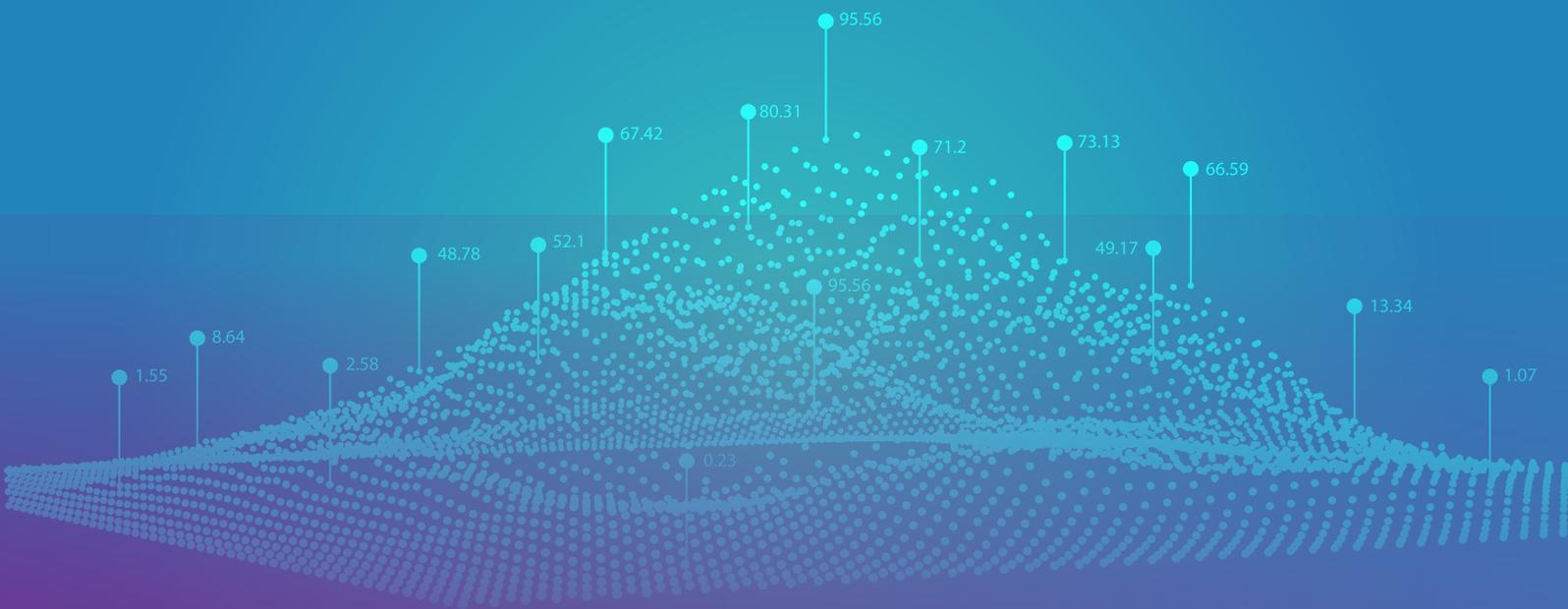
edureka!

POST-GRADUATE PROGRAM IN

Big Data Engineering

9 Months | Online | 450+ Hours of intensive learning

www.edureka.co



NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA

THE NATIONAL INSTITUTE OF TECHNOLOGY

The National Institute of Technology, Rourkela is one of India's top colleges and ranked 2nd among NITs by MHRD. NIT Rourkela has also been recognized as an Institute of National Importance by the Government of India. NIT Rourkela under its continuing education program has partnered with Edureka to design this online Post-Graduate Programme in Big Data Engineering in order to develop the next cadre of highly skilled professionals and experts in the field of Big Data Engineering.

EDUREKA

Edureka is an online education platform focused on delivering high-quality learning to Technology professionals. We have the highest course completion rate in the industry and we strive to create an online ecosystem for our global learners to equip themselves with industry-relevant skills in today's cutting edge Technologies. We house a team of dedicated instructors with vast industry experience backed by a support team that works round the clock, ready to help our learners maximize their experience.

Why Enroll In **This Program?**

NETFLIX

amazon

IBM

Google

Uber

Due to the growing adoption of Big Data, the gap between the demand and supply of skilled Big Data Engineers is increasing every day. This gap has not only lead to a large number of job opportunities but also enabled professionals with the appropriate skills to command higher salaries.

Don't you want to capitalize on **this market opportunity?**

The NIT Rourkela faculty, Edureka experts, industry veterans, a large pool of SMEs and learners have jointly collaborated to create this online PG Program in Big Data Engineering. This PGP is a rigorous 9-month program with over 450 hours of intensive learning designed to make you not just industry ready but also primed to excel.



PROGRAM **FEATURES**



9-Month Online
Post-Graduate Program



Certificate
on Completion



450+ Hrs of
Learning



Mentoring from NIT
Rourkela and Edureka
Faculty



24x7 Expert
Support



Lifetime
Access



100% Placement
Assistance From Edureka

PROGRAM CURRICULUM



BUILDING BLOCKS FOR BIG DATA

Big Data introduction & Applications
Non - Linear Data Structures for Big Data
Designing High Performant Distributed Algorithms
Tool Stack Options for Big Data



DISTRIBUTED & PARALLEL COMPUTING FOR BIG DATA

Background of Distributed & Parallel Computing Systems
Hadoop: A Distributed and Highly Scalable Computing Platform
Storing Big Data in a Distributed Cluster: HDFS
Advance HDFS Concepts
MapReduce Computational Model
Scala Essentials for Spark – I
Scala Essentials for Spark – II
In-memory Computation for Big Data
Advance RDDs Concepts in Spark



BIG DATA MODELS AND MANAGEMENT

Introduction to Relational Database Management System
Storing, Handling & Managing Data in Relational Database
Advance Hive Concepts
Relational Data Processing with Spark: SparkSQL and DataFrames
Handling Heterogeneous data with NoSQL
Exploring Column Based NoSQL Database: HBase
Working with NoSQL Database Cluster: Apache Cassandra
Deep Diving into Apache Cassandra



DATA WAREHOUSING & BIG DATA PIPELINE

Introduction to Data Warehousing
Large Scale Data Ingestion Using Sqoop
Performing ETL Using Hive
Building Robust ETL Pipeline with Spark
Workflow and Job Scheduling – I
Workflow and Job Scheduling – II



REAL-TIME BIG DATA PROCESSING

Working with Streaming Data
Streaming Data Processing With Spark
Structured Streaming in Spark
Low Latency and Real Time Data Processing with Kafka – I
Low Latency and Real Time Data Processing with Kafka – II
Building Streaming Data Pipeline Using Kafka, Spark & NoSQL



DATA GOVERNANCE IN BIG DATA

Maintaining Data Integrity in Big Data Platforms
Access Policies in Big Data Platforms
Security Concepts in Hadoop – I
Security Concepts in Hadoop – II

Note: Curriculum may be updated because of the evolving nature of the Technology



BIG DATA ANALYTICS & INTELLIGENCE

PROGRAM CURRICULUM

Introduction to Big Data Analytics
Business Intelligence & Visualization for Big Data
Advanced Analytics Using ML – I
Advanced Analytics Using ML – II

Note: Curriculum may be updated because of the evolving nature of the Technology



Industry Projects:

An industry project will be a part of your program to consolidate your learning. Industry projects will ensure you have the real-world experience to start your career in Big Data Engineering.



Certificate:

Upon successful completion of the course, you will:

Get certified by NIT Rourkela & Edureka,



Program & Batch Details

Duration: 9 Months

Program Fee: Rs. 2,47,500/-

(EMI Starts at Rs. 11,738 per month)



Eligibility

A potential candidate must have one of the following prerequisites:

Degrees like BCA, MCA, and B.Tech or Programming experience

Should have studied PCM in 10+2



Selection Process

Candidates will have to complete a thorough online application process and attend telephonic interviews to be eligible to attend the program.



SCHOLARSHIP

We are also offering scholarships worth up to **Rs. 1.5 Lakhs** to exceptional candidates.

For further details, please contact:

+91-96060 58419

admissions.pgp@edureka.co



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ROURKELA**

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