

B. Tech CSE with Specialization in Big Data Analytics

Industry Trends and the Role of Big Data:

The digital transformation era has led to a massive increase in data generation. Organizations are leveraging big data technologies for insights, decision-making, and maintaining competitiveness. Mastering these technologies is crucial for handling complex datasets and deriving actionable insights.

Addressing Industry Needs: Xebia Academy's Approach

Xebia Academy prepares graduates for Big Data careers through a comprehensive program featuring:



Industry-Aligned Curriculum:

Developed with industry experts to reflect current trends and technologies.



Practical Experience:

Hands-on projects, workshops, and real-world case studies.



Career Support:

Personalized guidance, resume workshops, and interview preparation.



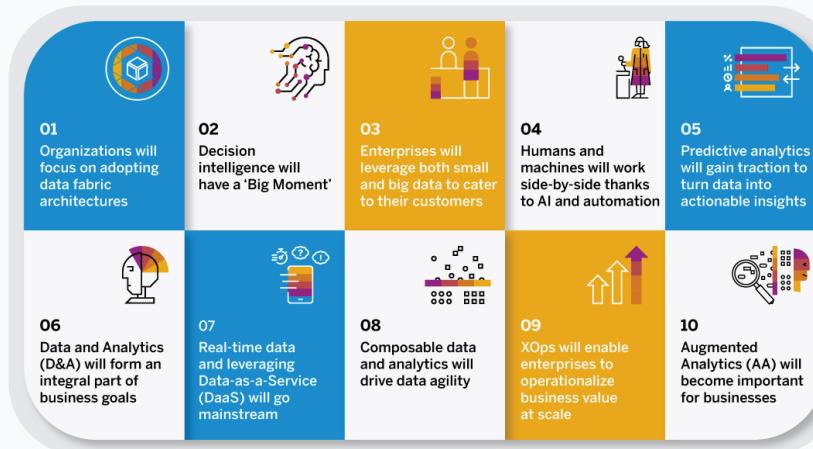
Experienced Faculty:

Practitioners and educators offering mentorship and insights.

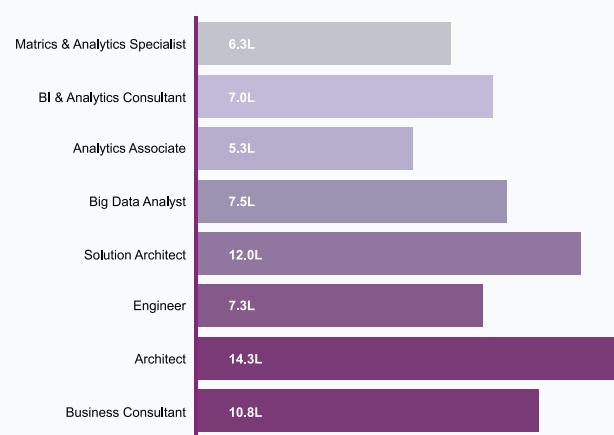
Job Roles for Graduates

In India, Big Data graduates are highly sought after across industries like e-commerce, which uses data for personalized recommendations, and healthcare, which applies it to predictive analytics and drug discovery. Key roles include Big Data Engineer, Data Scientist, and Hadoop Developer. Graduates can also aim for positions like Junior Data Analyst or Entry-Level Big Data Engineer, equipped with skills in data management and machine learning.

Top 10 Trends in Big Data and Analytics



Big Data and Analytics Job Titles and Avg. Salaries



Enabling Learner Success



Holistic Skill Development

Through industry visits, Guest Speakers, campus ambassador program and TechFests

Hackathon / Industry Sessions

Elevate your skills through Full Stack DevOps Hackathon and industry sessions

Build Your Portfolio

Craft your winning portfolio and ace your interviews with our expert guidance sessions

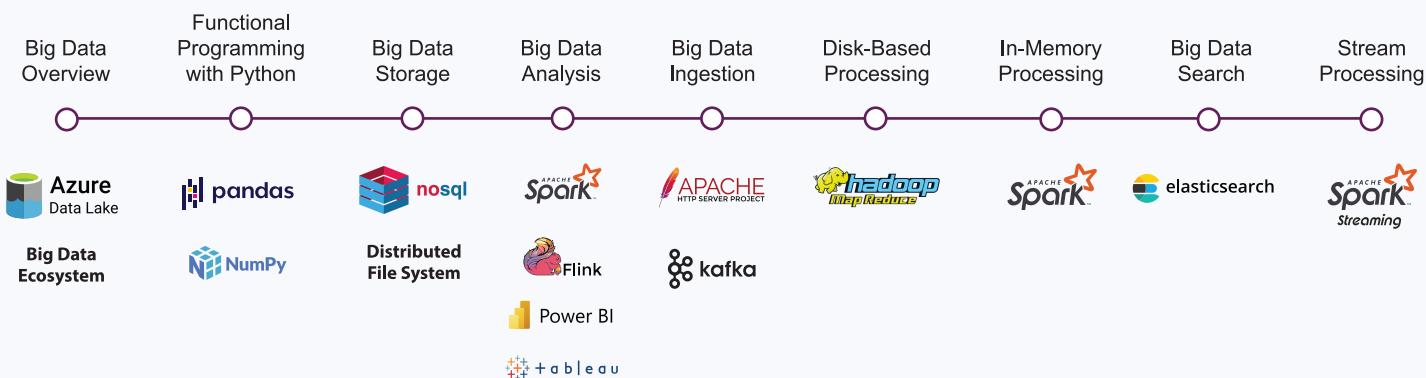
Learning Journey of Big Data

Modules
Topics
Project*

Introduction to Big Data	Python Programming for Big Data	Big Data Storage Mechanisms	Big Data Analytics	Data Ingestion in Big Data Systems	Disk-Based Data Processing	In-Memory Data Processing with Spark	Advanced Big Data Topics
Data Growth Explosion, Data Storage Mechanisms, Data Lake Essentials, Big Data Ecosystem	Python Environment, Basics of Python, Data preprocessing, Fundamentals of data analysis	File System Namespace, NoSQL Database, Sharding, Distributed File System, HDFS	Efficient Big Data Analytics Solutions, Tools and Technologies, Visualizing Big Data Insights	Data Ingestion from RDBMS and File Based Systems, Kafka and streaming applications	Data processing methods, MapReduce, YARN - Memory Tuning, In-memory Architecture	Distributed Processing, RDD, DataFrames & DataSet, Working With Spark, pyspark, Spark in Kubernetes	Lucene, Elasticsearch, Scala with Spark, Stream Processing, Big Data Security
Analyze a sample big data set	Develop Python-based scripts	Configure a distributed file system	Analyze a real-world big data set	Develop a data ingestion pipeline	Implement a MapReduce job	Implement a Spark-based data processing pipeline	Build a search engine, Develop a real-time application

* List of Projects is Illustrative

Key Technology Covered in the Program



Sounds Interesting?

Contact Counselling Team of Future University

+91-9917480040, 18001236789

admissions@futureuniversity.in | www.futureuniversity.in