

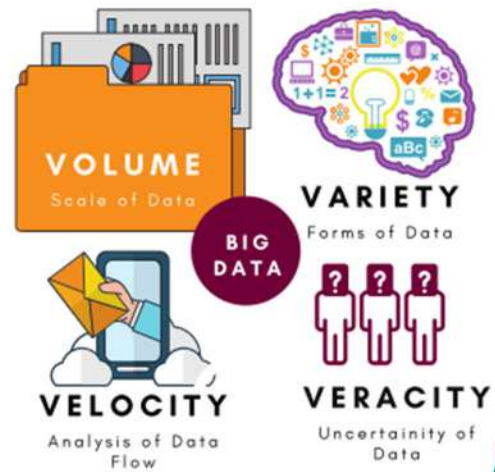


B.Tech with Specialization in
Data Engineering & Business Analytics 

THE 4V's of BIG DATA

The set of gathered large data that cannot be processed with traditional computing methods is known as Big Data comprising of several techniques, tools, and frameworks.

- ➡ **Volume** Scale of data
- ➡ **Variety** Forms of data
- ➡ **Velocity** Analysis of Data
- ➡ **Veracity** Uncertainty of data



DATA ENGINEERING & BUSINESS ANALYTICS @XEBIA ACADEMIC ALLIANCE

Data engineering and business analytics enable businesses to collect, store, process, and analyse large volumes of data, and use that data to make informed decisions that drive growth and success. Data Engineering and Business Analytics course at Xebia cover the principles, tools, and techniques used in managing and analyzing large amounts of data to extract valuable insights and inform business decision-making.

Data Engineering focuses on building and managing the infrastructure required to collect, store, and process data, including data pipelines, databases, and data warehousing. This involves working with technologies such as Hadoop, Spark, and SQL. Business Analytics, on the other hand, involves using statistical and machine learning techniques to analyze data and derive insights that can inform business decisions. This includes skills such as data visualization, predictive modeling, and data storytelling.

Together, these two areas provide a comprehensive set of skills for working with data in a business context, allowing professionals to extract valuable insights that can help companies make informed decisions and drive growth.

```
integer euclidAlgorithm (int A, int B) {\n    A = Math.abs(A);\n    B = Math.abs(B);\n    while (B != 0) {\n        if (A > B) A = A - B;\n        else B = B - A;\n    }\n    return A;\n}
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Easy to Start:

Involvement of Simple Programming Languages

High Demand Profession:

It is considered to be the most wanted expertise by 75 percent Internet of Things (IoT) providers.

Work with recognized Brand Names:

In addition to the opportunity to work with start-ups and small companies, IBM, SAP, Microsoft, HP, and Oracle are also exploring Big Data research.

Enhance Customer Relationship:

Especially for B2B companies, Big Data Analytics gives better insights about their customers and eliminates the risks of guesswork.

Multi -Industry/ Domain Opportunities:

With popular brands Software AG, Oracle Corporation, IBM, Microsoft, SAP, EMC, HP and Dell have invested more than \$15 billion in software firms specializing in Data Analytics. One can choose from the pool of opportunities

Key Decision-Making Power:

Big Data Analytics is an added value to any organization, allowing it to make informed decisions and providing an edge over competitors. Organization

Competitive Salary:

The monetary benefits of shifting to a Data Analytics career can prove to be better than those of other IT professionals.

DATA ENGINEERING IS THE BEST CAREER MOVE

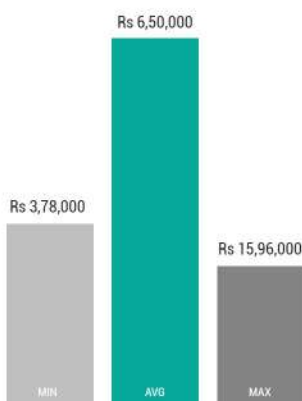


BECOME A DATA ENGINEER



DATA ENGINEERING ENTRY SALARY INSIGHTS

Minimum Rs 3,78,000
Average Rs 6,50,000,
Maximum Rs 15,96,000



SKILLS TO BECOME DATA ARCHITECT

- Knowledge about data architectures and an ability to handle and analyse large scale data
- Be able to benchmark systems, analyse and identify any possible bottle necks in the architecture, and then propose appropriate and efficient solutions to solve them.
- The ability to process and analyse data to understand the behaviour of the customer
- Have good knowledge about a scripting language like Python, Ruby, or R.
- Good working ability and understanding of Hadoop to solve various problems

CAREER PATH

- ML Engineer
- Business Analyst
- Data Scientist
- Data Analyst
- Big Data Architect
- Reporting Engineer
- PowerBI Engineer
- Data Engineer

BIG DATA ANALYTICS 2022

Data as a Service: Data as a Service is one of the current trends in big data analytics and will deliver it simpler for analysts to obtain data for business review tasks and easier for areas throughout a business or industry to share data.

Accessible Artificial Intelligence Machine Learning, one of the emerging trends in Big Data Analytics can perform algorithms to parse data, learn from this data, and then make predictions using neural networks. The AI is used to expose the data results in patterns the technology can understand.

Predictive Analytics: Predictive methods are implemented to examine modern data and historical events to know customers and recognize possible hazards and events for a corporation. Predictive analysis in big data can predict what may occur in the future.

Quantum Computing: Quantum computers, the latest technology in big data analytics, calculate the probability of an object's state or an event before it is measured

NLP: Natural Language Processing (NLP) lies inside artificial intelligence and works to develop communication between computers and humans

Dark Data: Dark data is the data that a company does not use in any analytical system.



COURSE COVERAGE

● Big Data Overview

● Machine Learning

● Big Data Ingestion

● Big Data Storage

● Big Data Analysis


● Advanced Functional Programming


● Visual Analytics

TOOLS

 SPARK

 Hadoop

 HIVE

 KAFKA

 SQOOP

 MongoDB

 MapReduce

 Python

 Scala





Xebia is a pioneering IT consultancy and Software Development company headquartered in Netherlands with offices globally USA, UK, France, Dubai, India. Xebia is a group of highly ambitious craftsmen and delivers high quality services to cover all aspects of digital transformation. We provide innovative solutions and services to help your organization become a digital winner to cover all aspects of digital transformation.

Xebia Academic Alliance is the Academic Initiative of Xebia Academy focused on creating an extensive learning experience for the students and with the intent of aiding solutions to various facets. We have Xebia Academy Centre of Excellence accustomed to the provision of all requisites to make the students industry ready and ensure efficient collaboration.

The COE combines the best of Academia and Industry implementing the expert stitched courseware with various engagement deliverables on the student as well as faculty Front. We aspire to build a strong foundation for a bigger picture of creating a talent pool for the Future Workforce.



Student Development Programme

- **Campus Ambassador Program**
An opportunity for you to become a student leader and represent Xebia while also honing technical skills through direct industry exposure.
- **Xe-Thon**
A fun-filled competitive series of challenging, brain scratching, tech events: Ideathon, Hackathon and Champion's League
- **X TED: Xebia Tech TED Week**
A series of enriching industry expert talks on niche technologies in the form of Ted Talks
- **Xe-CAT**
An opportunity for Xebia campus ambassadors from different universities to share their great insights on our Xebia Academic Alliance Platform
- **Annual Conclave**
An Annual Tech Fest of Xebia filled with Competitive Events, fun tech challenges and Champion's League



LMS- DigitalLearn

The courseware created by the top-notch industry experts available just at a click via DigitalLearn- The learning management system of Xebia.

TECH-XE™ The Newsletter

Tech-XE is the quarterly publication of Xebia Academic Alliance serving to substantiate the affiliations with the stakeholder on grounds of fun and interesting reads, updates of Xebia events and initiatives on a routine cycle.



Internship & Placements

Xebia's DigitalLearn will have Xebia and its partner companies posting jobs and internships on the platform through a dedicated placement head, helping in student quest.

Xebia also has a simulated internship program driven by industry problem statements and handholding done by university faculties with mentorship from Xebia impaneled trainers that allow students to experience the real world in a safe environment and build a sound foundation for their corporate careers.



Projects

Xebia's Project Spacebar provides a platform for the students to apply their knowledge pragmatically in the realm of their expertise adopting the projects from a rich pool, under the expert guidance of faculties and industry experts in sync with the mentorship program.

Xebia Campus Ambassadors



Chirag Chetnani



Mehak



Priyambada



Sakshi



Archita Paul



Chaitanya Virmani



Gehna Chitkara



Khyati Gupta



Lakshay Chaudhary



Archita Paul



Prajawal Paul



Kirti Bhardwaj



Prateek Kumar



Sanjeev Kumar
Prajapati



Subhanshu walia



Himanshu Vishwakarma



Kasak Khode



Rutu Vaidya



Zeeshan Mawani



Abhijeet Dhahiya



Sambhav Jain



Chealsy Thapar



Jaspreet Singh



Pranav Thapar



Anamol Verma



Farhan



Mansi Saini



Mehak



Nitesh Gurbani



Rakshit



Ratna Japal



Somasekhar



Tanishka



REVIEWS...



Sambhav Jain

Xebia course is well designed as per the latest industry and technological needs. The blend of practical well-equipped lab sessions along with the lacing of theoretical knowledge is impressive in this course. The course also provided me with a plethora of amenities such as industrial visits, in-depth knowledge of the latest tools and technologies used by industrialists, webinars, guest lectures, etc.

The highly experienced faculty of Xebia always has been motivating us in whatsoever way with top-class qualities and, the student-teacher ratio is splendid, and so it makes learning very easy. Overall, this program will surely bridge the gap between industry and academia by bringing state-of-the-art technology and cultivating an exciting and rigorous learning environment.



Mansi Saini

I can say the content which Xebia provides as far is literally up to the mark. Extra Xebia sessions and webinars gave us some insights into how the industry grows and works in the current scenario and it ultimately helps us become industry people. The curriculum of Xebia is so cinch that it is making us ebullient day by day.

Becoming a Campus Ambassador at Xebia has helped me in a way that now I realized, I am just a step away to reach out to the industry and I am hoping that this will enhance my management skills as well. Xebia has played a major role because the e-books and labs of Xebia are so accurate and easy to understand.

