DIGITALLY ARMING
THE WORKFORCE OF TOMORROW

TECHNOLOGY SPECIALIZATION

WHAT WE OFFER

B.Tech in Computer Science & Engineering with Specialization in

- **Artificial Intelligence & Machine Learning**
- **Data Engineering & Business Analytics**

BCA with Specialization in

- **Full Stack Web Development**

Xebia

TAKSHASHILA UNIVERSITY

About Us

Xebia is a pioneering IT consultancy and software development Headquartered in Atlanta, USA with offices globaly in Neatherlands, UK, France, Poland, UAE, and India. Xebia Academic Alliance, the education arm of Xebia group, aims to bridge the gap between industry and academic requirements. Our agenda is to boost young career by upskilling and inculcating new-age skills, ensuring a place for students in the fast-paced IT sector. We take care of the digital transformation of the talent pool from start to finish, from strategy to execution thereby creating digital leaders across the globe.

In line with the Takshashila University's Education Mission, Xebia Academic Alliance proposes a specialization Programme with collaborated New age technological advancements in the realm of **BTech and BCA disciplines**

Program USP's

- Instructor Led Programs and Mentorship Programs
- Capstone Projects
- Hackathons, Ideathons, Champion's League
- Campus Ambassador Programme
- Student Development Programs
- Workshops
- Highly skilled instructors
- Guest Lecture by CXO's

- Learning Management System
- Industry Stitched Rich Courseware
- Assessments & Assignments
- Hands-On Learning Experience
- Student Led Quarterly Newsletter
- Certifications

Academic Journey

Digital Learn
Learning Management System – Rich Courseware designed by industry experts and Academia professionals

Internship Opportunities
Intern & Earn Recommendation

Continuous Evaluation
Continuous evaluation Programme with Assessment Platform Solutions

Practical Learning
Get Hands-on with the Latest Tools with Virtual Labs

Industry Projects
Work on Real time industry projects (More than 100 Capstone Projects)

Placement Opportunities
Get access to different salary bands (starting from 4-6 LPA and going above 10-12 LPA)

Mentorship Program
Get Industry & Academia Mentorship

Digital Earn

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.

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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.
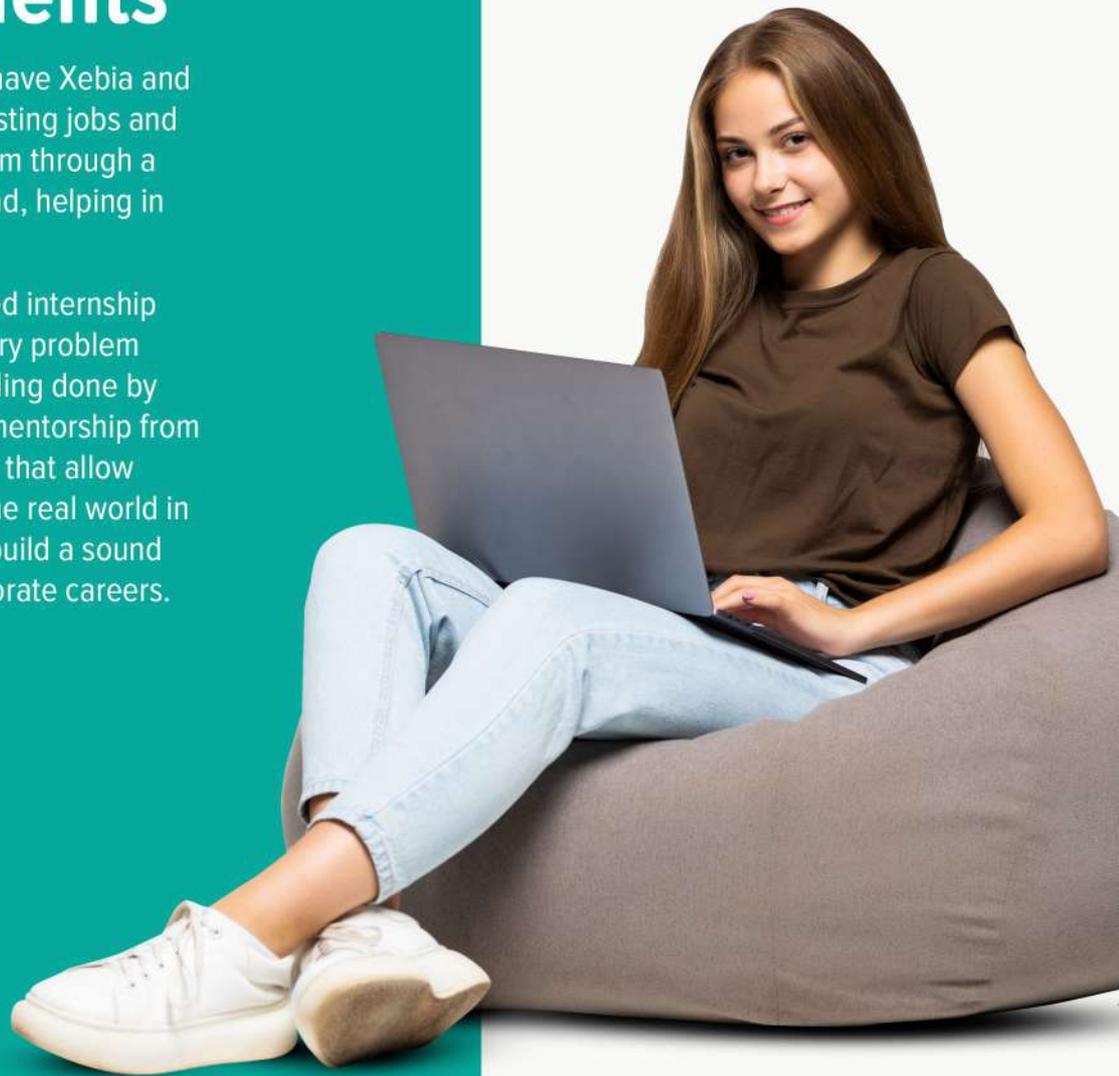
Projects

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.

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

VOLUME
Scale of Data

VARIETY
Forms of Data

BIG DATA

VELOCITY
Analysis of Data Flow

VERACITY
Uncertainity of Data
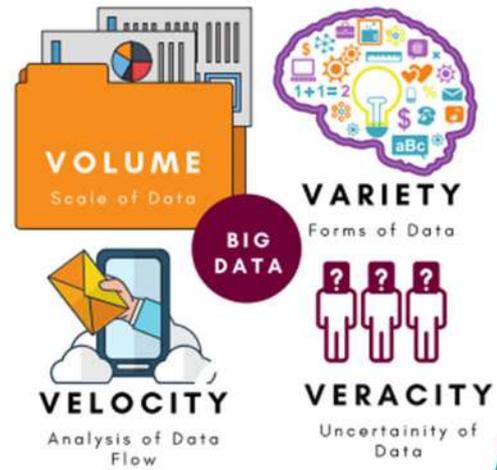
DATA ENGINEERING & BUSINESS ANALYTICS @XEBIA ACADEMIC ALLIANCE

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.

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DATA ENGINEERING
IS THE BEST CAREER MOVE

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.
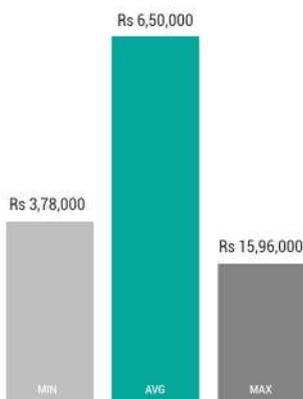
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Academic
Alliance

BECOME A
DATA ENGINEER

XX01 XX02 XX03

12%

DATA ENGINEERING ENTRY SALARY INSIGHTS

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

Rs 6,50,000

Rs 3,78,000

Rs 15,96,000

MIN   AVG   MAX

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
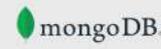- Visual Analytics

TOOLS

SPARK	SQOOP
Hadoop	MongoDB
HIVE	MapReduce
KAFKA	Python
	Scala

12 %

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Academic
Alliance

ROAD MAP TO FUTURE WITH AI & ML

As the demand for AI and machine learning has increased, organizations require professionals with in-and-out knowledge of these growing technologies and hands-on experience.

Considering the innate need of the hour, with Xebia Academic Alliance you can build your career in thriving fields like Artificial Intelligence, Machine Learning, and Deep Learning.

NLP Scientist

AI&ML Consultant

Data Architect

Machine Learning Engineer

Business Intelligence Analyst

Data Mining Engineer

CAREER PATH

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MARKET SURVEY INSIGHTS
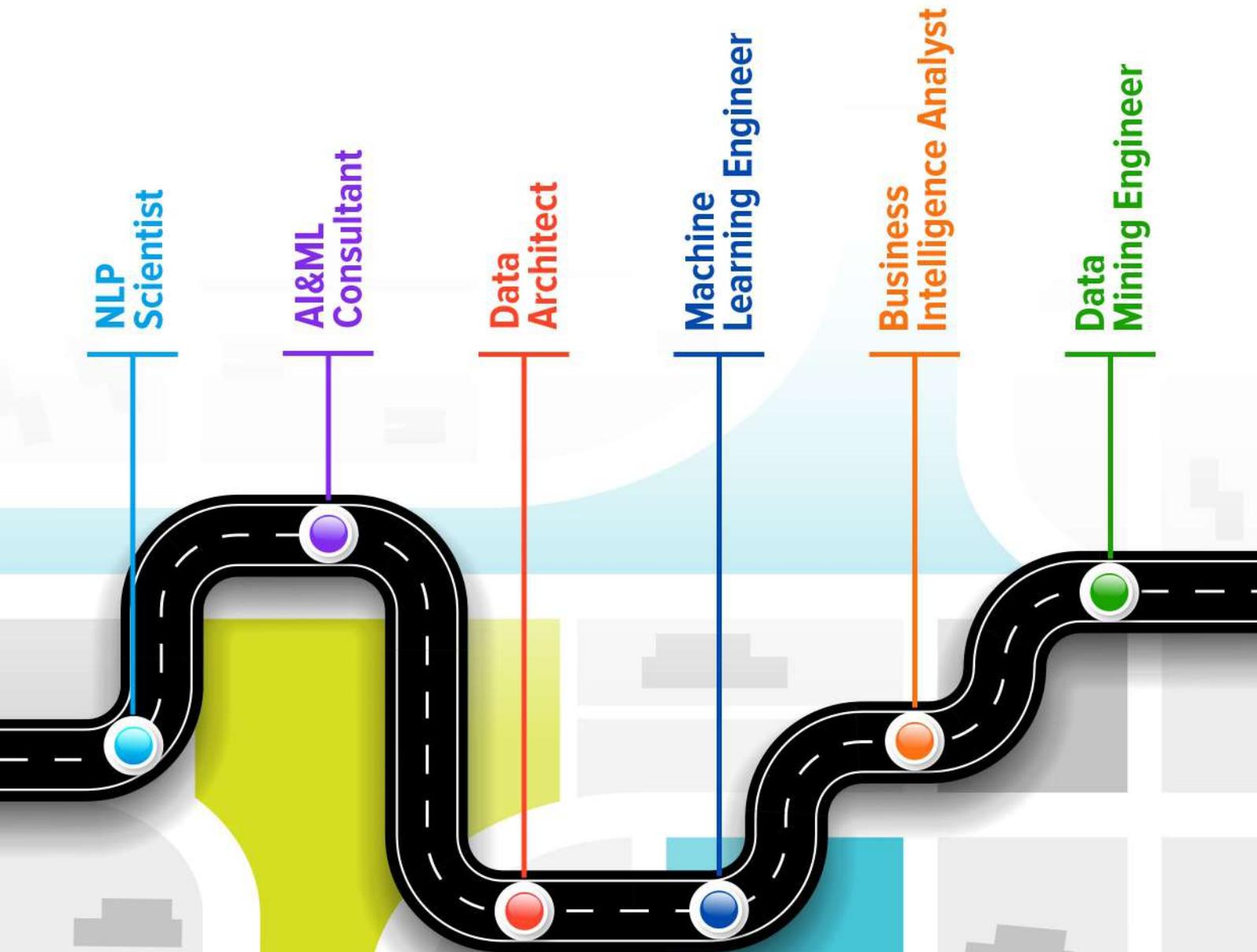
SALARY INSIGHTS:

The entry-level annual average AI engineer salary is around 8 lakhs.

WHY AI IS THE
FUTURE
JOB MARKET?

AI job market is booming and is expected to exceed $191 billion by 2024 globally, and AI is expected to create more than 2 million jobs across sectors

THE DEMAND FOR ARTIFICIAL FRAMEWORK, THE MANMADE FUTURE:

The future of jobs lies on how precisely the humans and machines can merge to create augmented teams.

VACANCY

GLOBAL JOB OPPORTUNITY:

Companies that effectively implement AI can generate more money for their businesses. This, in turn, leads to higher employee compensation, better technology tools, and greater efficiency. As a result, they will require a global workforce, which again generates huge employment opportunities.

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GREAT PAY:

The job Role of AI Engineer is found to be most promising with a recorded growth of 344% and an average salary base of US$ 146,085

MULTIFACETED REACH

AI has its implementation as multi-disciplinary encompassing the most important arenas including finance, Education, Entertainment, Gaming, Automobiles, Healthcare, Robotics, etc.

DIGITAL ASSISTANTS

Digital assistants such as the Google Assistant, Siri, Alexa, and Bixby are getting smarter by the year. According to Zion market research, by 2025, the global intelligent virtual assistant market will reach $19.6 billions.
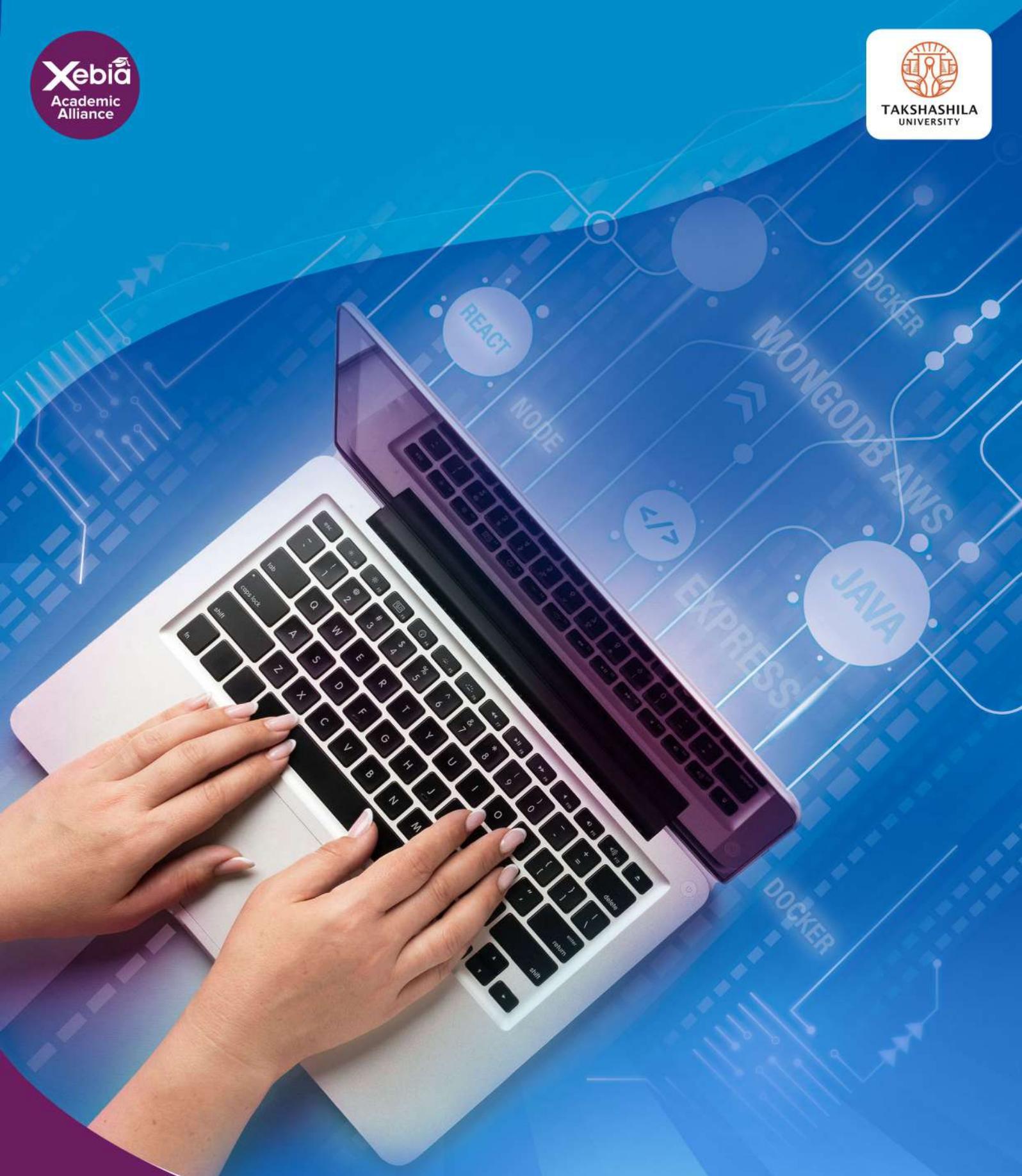
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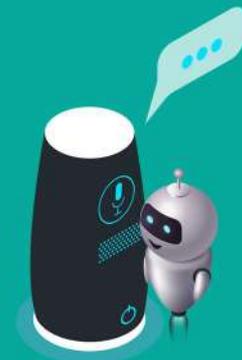
AI&ML AT XEBIA ACADEMY

The course of AIML at Xebia Academic Alliance enables you to learn and become an expert in an evolved approach to the development.

○ Foundation of AI & ML

○ Agile Practices

○ Python Programming & Supervised learning

○ Unsupervised Learning & Neural Networks

○ Advanced Neural Network

○ Natural Language Processing & Search Algorithms

○ Computer Vision & Image Processing

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BCA IN
FULL-STACK
WEB DEVELOPMENT

Full Stack

The course of Full Stack web development at Xebia Academic Alliance enables you to learn and become an expert in programming concepts of the web application. The students get a throughout theoretical and practical knowledge tour on utilizing different methodologies to design, develop, & launch a website.

Why Become a
Full Stack Developer?
High Demand

- RANKED #1 amongst millions of jobs by leading job website. Indeed 50% higher salaries than average developers in top 10 companies.

- 23,000 new jobs for full stack developer posted online monthly in India.

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Varied
Career Paths

- **Web** Developer
- **Junior** Full Stack Developer
- **API** Engineer
- **Full Stack** Engineer
- **Full Stack** Software Engineer

- **Software** Development Engineer
- **Versatility &** Flexibility
- **Higher** Productivity
- **Gives Insights into** multiple facets of development.
- **Getting a hands-on** various technology, provides an edge over other developer.

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Who is a Full Stack Developer?

Full Stack Developers have the qualifications and experience to add groundbreaking features to your product to excite the market having a 360-degree perspective.

- Widely experienced equipped with in-depth knowledge
- Can Troubleshoot Issues in the most efficient manner.
- Articulate the job in a budget friendly manner.
- Highly Skilled in both front end and back-end development
- Caters the Design Structure
- Aids easy maintenance and Updates.

The opportunities for job and Growth:

Full Stack Developers are the Jack of All Trades with a to-and-fro tour to frontend and back-end development.

When many developers specialize in either serverside or client-side programming, there are full-stack developers who have experience and expertise with both realms, making it the most in-demand development with lucrative opportunities. Xebia Academic Alliance offers a Challenge-driven learning platform Instruct a combination of exceptional learning platform with microlearning content in Full Stack powered by expert professionals.

Full Stack Development Trends

- **Artificial Intelligence**
- **Internet of Things**
- **Blockchain Technology**
- **Low Code Development**
- **Language Trends**
- **Augmented & Virtual Reality**

Be a T-Shaped Professional

Apply Knowledge Across Situations

BROAD

DEEP — Functional Skills

Full Stack Developers are highly skilled professionals who not only are adequately experienced or are the master of one or more niches but also have well-versed knowledge of another niche as well. The full stack developer possesses know-how about a wide range of software and programming languages apart from the front-end and the backend development.

Quick Facts

- The origin of full stack development goes as far as June 3, 2008
- FSD includes knowledge in front-end and Back end development
- Today there are over 23 million developers around the world, and by 2023 it would reach 27.7 million- Evan Data Group
- Full Stack Development is one of the most in-demand jobs in the past years
- A Full Stack Developer salary is as high as its demand in the job market

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What do you learn at Xebia

Agile, HTML, CSS, Bootstrap, JavaScript, jQuery, Front end development using React JS, Nodejs and Express / Unit Testing, NoSQL / MongoDB, Git, Jenkin, Docker, Kubernetes, Nagios, AWS Deployment, TDD, Best Practices

BCA in Full Stack Development

- ○ Fundamentals with craftsmanship
- ○ Backend Development
- ○ Database with MongoDB

- ○ UI Specialist/ UX Expert
- ○ Test Automation

Java   aws   Jenkins   docker
node JS   Express JS   mongoDB   React
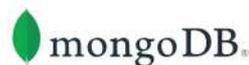
Xebia
Campus Ambassador

Chirag Chetnani (I year)

I have been engaged with Xebia as a campus ambassador and this journey has always been very exciting and has bolstered my interest in ML. It's been very nice being associated with such a great team.

Mahak Jain

I became the campus ambassador of Xebia when I was in first semester. It is a great opportunity to meet new people and develop yourself as a person. Becoming a student ambassador really helped my confidence and I definitely learned a lot along the way.

Priyambada Mohapatra (I year)

I have been campus ambassador for 8 months. It was a very nice experience . All the engagements helped to increase my creativity and knowledge about upcoming technology. In all it was a very educational experience. Which helped me in growing my personality.
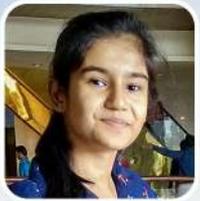
Sakshi Jain

I am grateful to Xebia for giving me an opportunity of becoming a Campus Ambassador. It is an overwhelming experience to get associated with Xebia. You not only get to work as a CA but you get to learn a lot more, it's more than just being CA. This experience is full of learning at the same time I improved my communication skills and become more confident.

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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 a plethora of amenities such as industrial visits, in depth knowledge of latest tools and technologies used by industrialists, webinars, guest lectures, etc.

The highly experienced faculty of Xebia always has been motivating us in whatsoever ways 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 cultivate an exciting and rigorous learning environment.

Mansi Saini

"
I candefinitely saythe content which Xebia provides as far is literallyup to the mark. Extra Xebia sessions and webinars gave us some insights of how industry grows and working in current scenario and it ultimately helps us becoming an industry person. The curriculum of Xebiais 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 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.