

CURRICULUM

Module 1: Foundations

- Excel: Basics, VLOOKUP, Power Pivot, Reporting, Dashboard
- Linux: Introduction, File System Navigation, Commands, Shell Scripting
- Git & Version Control: Git Commands, Version Control, CI/CD

Module 2: Programming for Data Engineering

- **Python Fundamentals:** Data Types, Operations, Conditional Statements, Loops, Strings, Data Structures, OOPs, Exception Handling & Modules
- **Advanced Python:** NumPy, Pandas

Module 3: Databases & Data Modeling

- **SQL (Relational Databases):** DDL, DML, TCL, DCL, Filtering, Aggregations, Joins, Normalization, System Functions, UDFs, Subqueries, CTE, Window Functions, Analytical Function, Views & Stored Procedures, Data Modeling, Indexing, Partitioning, Query Optimization
- **NoSQL:** Introduction, MongoDB (Document Stores), Use Cases
- **Data Warehousing:** OLTP vs OLAP, Star Schema, Snowflake Schema, Data Warehouse Design

Module 4: Big Data & Data Streaming

- **Big Data Frameworks:** Hadoop, YARN, MapReduce, Spark (Architecture, RDDs, DataFrames, SparkSQL, Parallel Processing, Transformations, Aggregations, Actions)
- **Data Streaming:** Columnar Data Stores, Kafka (Introduction, Topics, Partitions, Producers, Consumers, Use Cases)

Module 5: ETL & Orchestration

- **ETL/ELT Concepts:** Data Ingestion & Transformation
- **Orchestration:** Apache Airflow

Module 6: Cloud Data Solutions

- AWS: S3, EC2, EMR, Glue, Redshift, Athena, Lambda, Kinesis
- GCP: BigQuery, Pub/Sub
- Azure: ADF, Synapse Analytics, Blob Storage
- Databricks: Apache Databricks for Unified Data Processing

Module 7: Data Visualization

- AI-Powered BI (Power BI): Modelling, Dashboarding, Reporting, AI Copilot

Module 8: Capstone Project

End-to-End Data Engineering Project:

Build a pipeline covering Ingestion → Transformation → Streaming → Storage → Visualization → Deployment on Cloud

BICTORS



FULL STACK DATA ENGINEERING

GET STARTED

CAREER POSSIBILITIES

Entry- Level Roles

- Data Engineer
- Data Analyst
- ETL Developer
- SQL Developer

Mid- Level Roles

- Sr. Data Engineer
- Sr. Data Analyst
- Sr. Data Pipeline Engineer
- Sr. Data Integration Engineer
- Sr. Data Warehouse Engineer
- Sr. Analytics Engineer

Advanced Roles

- Cloud Data Engineer
- Big Data Engineer
- Streaming Data Engineer
- Cloud Solution Engineer

WHO CAN JOIN ?

Any Graduate

- BTech / MTech
- BCA / MCA
- BBA / MBA
- BSc / MSc
- BCom / MCom
- BPharma / MPharma

Working Professionals

- IT Professionals
- HR Professionals
- Researchers
- Banking Professionals
- Biotech Professionals
- Sales & Marketing

WHY YOU SHOULD CHOOSE A CAREER IN DATA ENGINEERING?



DEMAND



GROWTH



IMPACT



VERSATILITY



INFLUENCE



SALARY

7 LPA

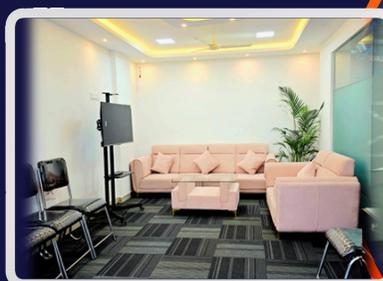
22 LPA

65 LPA

MIN

AVG

MAX



TOP HIRING PARTNERS



Morgan Stanley



J.P.Morgan



Deloitte



WHY BICTORS?

Choosing the right Data & AI training institute is crucial for your career success. At BICTORS, we ensure that you receive top-notch education, practical experience, and career support to thrive in the AI industry

- Industry-Relevant Curriculum
- Hands-on Learning
- Expert Mentorship
- Career Support & Placement Assistance
- Cutting-Edge AI Tools & Technologies

- Targeted Training: Bictors provides specialized training in emerging technologies to equip students with industry-demanded skills.
- Industry-Driven Curriculum: Designing curriculum with industry experts ensures alignment with current industry demands.

TOOLS & TECHNOLOGIES COVERED



git



Tableau



snowflake



Apache Airflow



Power BI



docker

SUCCESS STORIES

ENROLLMENT INFORMATION



TOTAL LEARNING HOURS: 90-100 HOURS + 44 HOURS OF PRACTICAL ASSIGNMENTS

PROGRAM LENGTH: 16 WEEKS

WHAT SETS US APART



Project-Based Learning



Continuous Assessment



Placement Guarantee



Career Support

UPCOMING BATCH

STARTING SOON



Deba Prasad Pati

Palo Alto

Completed the Data Science course at BICTORS great curriculum, expert instructors, and hands-on projects. Their career support helped me land a great job. Highly recommended for starting out in Data Science!



Siddhant Sar

Flipkart

BICTORS combines expert teaching, practical examples, and constant faculty support to create a top-tier learning experience. It's the perfect launchpad for a successful Data Science career.



Sibani Mishra

Cardinal Health

Had a great learning experience at BICTORS. Skilled trainers, practical examples, and mock interviews helped me improve and land a role at a top product-based company. Highly recommend it!



Aradhana Chitre

Wells Fargo

Each topic is thoroughly explained with examples and key questions. The faculty is highly experienced and provides constant support throughout the course. I highly recommend Bictors for anyone looking to excel in Data Science.



Shrinivas G K

Cardinal Health

Completed the Data Science course at BICTORS and was truly impressed. Great curriculum, expert instructors, hands-on projects, and strong career support. Highly recommend it for a solid start in Data Science!



Sakti Prasad

CAPCO

Thanks to the exceptional training and continuous support from BICTORS and my mentors, I secured a Lead Analyst role at Capco with a competitive package within just a few months. Truly grateful!

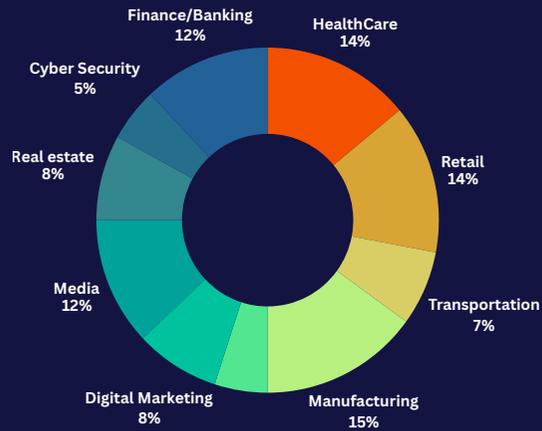


Nihar Ranjan

Cardinal Health

BICTORS offers excellent Data Science training with expert mentors, hands-on projects, and interview .Curriculum and practical insights make it a great choice for anyone looking to advance in Data Science. Highly recommended for career growth!

INDUSTRIES TO HIRE YOU



DATA ENGINEER ROAD MAP



Top most targets

Career at BICTORS will help you to get into all the industries. Top most leading industries looking for you are :

- 01** Banking, Finance, Insurance, Credit Card
- 02** Supply chain, Retail marketing, Manufacturing
- 03** Health Care, Medicine, Medicals, Biotech, Pharma
- 04** News media, Ad industry, Social media, Digital marketing
- 05** Real estate, Civil & Mechanical industry, Service industry
- 06** Agriculture, Aerospace & Aviation industry, Automobile industry

- Data Architecture & Pipeline Design
- Batch & Streaming Ingestion (Kafka, Spark, Flink)
- ETL/ELT & Orchestration (Airflow, dbt, Prefect)
- Data Modeling & Warehousing (Snowflake, BigQuery, Databricks)
- SQL Mastery & Query Optimization
- Big Data Processing (Spark, Dask, Ray)
- Cloud Data Engineering (AWS, GCP, Azure)
- Data Governance & Quality (Great Expectations, Lineage)
- Monitoring & CI/CD for Pipelines
- BI & Data Products (Tableau, Power BI, Looker)



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