



**iUniversity**  
BY IYDA

## Data Engineering & Big Data Bootcamp

### iUniversity by IYDA

|                          |   |
|--------------------------|---|
| Duration                 | 5 Months                                |
| Course Hours of Learning | 180 Hours                               |
| Mode                     | Online / Offline / Hybrid               |
| Eligibility              | 10+2 / Graduate / Working Professionals |
| Level                    | Beginners to Advanced                   |

#### ***Module 1: Introduction to Data Engineering***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 2: Python Programming for Data Engineering***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 3: SQL & Database Management***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 4: Data Warehousing Concepts***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 5: Big Data Fundamentals***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 6: Hadoop Ecosystem***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 7: Apache Spark for Big Data Processing***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 8: Data Pipelines & ETL Development***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 9: Cloud Data Engineering***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 10: Data Governance & Security***

Practical learning through hands-on labs, assignments, and real-world applications.

#### ***Module 11: Real-Time Data Processing***

Practical learning through hands-on labs, assignments, and real-world applications.

### ***Module 12: Capstone Project & Industry Case Studies***

Practical learning through hands-on labs, assignments, and real-world applications.

## **Tools & Technologies Covered:**

- Python
- SQL
- MySQL
- PostgreSQL
- Hadoop
- Apache Spark
- Hive
- Kafka
- Airflow
- AWS
- Google Cloud Platform
- Docker
- GitHub
- Jupyter Notebook

## **Career Opportunities:**

- Data Engineer
- Big Data Engineer
- ETL Developer
- Data Warehouse Engineer
- Cloud Data Engineer
- Database Developer
- Data Integration Specialist
- Big Data Consultant
- Data Architect
- Analytics Engineer