



**iUniversity**  
BY IYDA

## **Data Engineering & Big Data Bootcamp – Build Scalable Data Systems**

### **iUniversity by IYDA**

|                |  |
|----------------|--|
| Duration       | 6 Months   |
| Learning Hours | 210 Hours  |
| Mode           | Online / Offline / Hybrid                          |
| Eligibility    | 10+2 / Graduate / Working Professionals            |
| Level          | Beginners to Advanced                              |
| Certification  | Certificate of Completion from iUniversity by IYDA |

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

Hands-on learning through practical labs, projects, and real-world data scenarios.

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

Hands-on learning through practical labs, projects, and real-world data scenarios.

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

Hands-on learning through practical labs, projects, and real-world data scenarios.

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

Hands-on learning through practical labs, projects, and real-world data scenarios.

#### ***Module 5: Big Data Ecosystem and Hadoop***

Hands-on learning through practical labs, projects, and real-world data scenarios.

#### ***Module 6: Apache Spark for Data Processing***

Hands-on learning through practical labs, projects, and real-world data scenarios.

#### ***Module 7: Data Pipelines and ETL Development***

Hands-on learning through practical labs, projects, and real-world data scenarios.

### ***Module 8: Cloud Data Engineering***

Hands-on learning through practical labs, projects, and real-world data scenarios.

### ***Module 9: Data Streaming with Kafka***

Hands-on learning through practical labs, projects, and real-world data scenarios.

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

Hands-on learning through practical labs, projects, and real-world data scenarios.

### ***Module 11: Workflow Automation and Orchestration***

Hands-on learning through practical labs, projects, and real-world data scenarios.

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

Hands-on learning through practical labs, projects, and real-world data scenarios.

### ***Tools & Technologies Covered:***

- Python
- SQL
- MySQL
- Hadoop
- Apache Spark
- Kafka
- Airflow
- AWS
- Google Cloud
- Git
- GitHub

### ***Career Opportunities:***

- Data Engineer
- Big Data Engineer
- ETL Developer
- Data Pipeline Engineer
- Cloud Data Engineer
- Data Architect
- Analytics Engineer