

Master's Program in Big Data Engineering & Cloud Computing



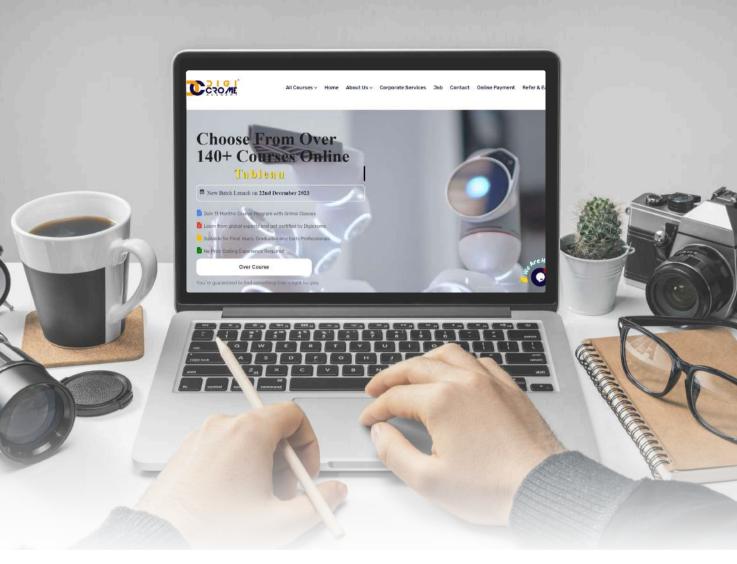
10K+ Learners



1:1 Personlized Mentorship



40% Average Salary Hike



About Digicrome

Digicrome is the world's #1 online bootcamp provider that enables learners through rigorous and highly specialized training. We focus on emerging technologies and processes that are transforming the digital world, at a fraction of the cost and time of traditional approaches. Over one thousand professionals have harnessed our award-winning programs to achieve their career and business goals

Master's Program in Big Data Engineering & Cloud Computing



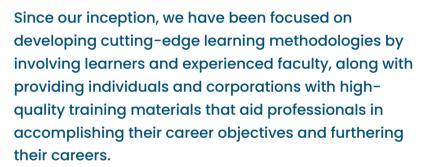






5k+

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We work with some of the world's finest institutions and certifying authorities and we aspire to provide high-quality training to professionals all across the globe. We have a proven track record of effectively training thousands of professionals in both classroom and online training. Come join us and let us transform your professional lives via digital skills.



250+

Batches



Our mission is to offer affordable and industry-relevant education that enables the advancement and development of India's workforce.





4.6/5

Google Rating

Hottest Job of 21st Century



1.5 Million Job Postings

There is a global estimate of 1.1 million job postings for Data Engineers in 2024



Skill Development

Data Engineers are equipped with various relevant skills that fetch lucrative job offers



Growing Data Engineering Industry

50% CAGR in the global data industry



Future-oriented Career

Data Engineering is a budding field; a head start will prove to be beneficial



Popular Degree

48% of Data Engineers have a master's degree



High Demand

In 2024, India and the US will face a demand-supply gap of 500,000 Data Engineers

Our Credentials



10K +

Aspiring Active Students



100+

Industry-expert Instructors



250+

Global Hiring Partners



750+

Corporates Upskilled



40%

Average Salary



65

Countries' Learners

Get Skills To Fulfill Every Role:

Our **Data Engineering** Courses are designed for a wide range of people looking for skills and opportunities across all major **IT sectors**

Hands-On Projects:



Gain practical experience by working on real-world projects, and building a robust portfolio that will impress potential employers.

Flexibility:



Our flexible schedule options allow you to learn at your own pace, making it perfect for both beginners and experienced developers looking to upskill.

Career Support:



We're dedicated to your success! Benefit from career guidance, resume building, interview prep, and job placement

Community:



Join a vibrant community of likeminded learners, where you can collaborate, share ideas, and network with peers.

Our students succeed in top-tier tech companies









































Who Should Enroll in this **Program?**

This program welcomes graduates from any discipline and working professionals across diverse backgrounds, provided they possess basic programming skills. The diversity among our students enhances the depth of class discussions and interactions.

A data engineer constructs and maintains data structures and architectures essential for ingesting, processing, and deploying data in large-scale, data-intensive applications. This career path holds promise for both newcomers and seasoned professionals passionate about data, including:

- ✓ Database administrators
- Beginners in the data engineering domain
- BI Developers
- Oata science professionals who want to expand their skills
- Students in UG/PG programs.



Who can apply?

- Freshers and Undergraduates willing to pursue a career in Data Engineering
- Anyone looking for a career transition to Data Engineering
- IT Professionals
- Experienced Professionals willing to learn Data Engineering
- Technical and Non-Technical Professionals with basic-level programming knowledge can also apply
- Project Managers

Additional Scholarships

Refer Someone and avail a discount of up to 5%

For more details, look at the program Terms & Conditions

How can apply?



Submit Application

Apply for the Program by filling up the 1 min Application form.



Join the Prestigious Program

The admissions office will send the acceptance letter. You can secure your seat by depositing the registration fee.



Admission

You can secure admission by accepting the offer letter and completing the payment.

Key Features of the Program



11 Months Live Classes



3 Months Internship



Key Highlights

- √ 11 Months of Live Sessions by Industry Experts
- ✓ 200+ Hrs of Self-paced Videos
- ✓ 24*7 Career Support
- Personalized project reviews
- Real-Time Data Processing
- Soft Skills Essential Training

- ✓ Learn industry-based practices

- Lifetime Career Assistance
- ✓ Placement Assistance Support*

AWS, Azure, GCP for scalable solutions

Skills you'll learn



Automate Data Pipelines



Data Modeling



Cloud Data Warehouses



Spark and Data Lakes

Skills Covered

Cloud Services:

 ✓ SQL:
 Master complex queries and database design

 ✓ ETL Processes:
 Extract, Transform, Load data with precision

 ✓ Data Warehousing:
 Build robust data storage solutions

 ✓ Python:
 Leverage powerful programming languages

 ✓ Big Data Technologies:
 Harness the power of Hadoop and Spark

 ✓ Data Visualization:
 Turn data into compelling stories

Course Tools & More



























































Learning Path & Career Services





COURSE MODULE

TIME DURATION: 11 MONTHS

45+Weeks: 200+ HOURS

- 11 Months of Practical & Module Training
- 200+ Hours of Comprehensive Learning
- 100+ Online Expert-led Classes
- 14 Specialized Modules

Note: 03 Months Internship (Internship will start from last three month of the course)

PROGRAM CURRICULUM

14 Modules



100+ Classes

Introduction to Data Engineering - ETL Process and other important theoretical concepts

Month 1



Fundamentals of Python Programming

- 1. Introduction to Python Programming Basics of Python, Data Types,
 Print and Input functions
- 2. Data Structures in Python Different Methods of Each Data Structure
- 3. Control Statements, Loops, and Functions in Python
- 4. Object Oriented Programming Classes and Objects, Inheritance, etc.



Exploratory Data Analysis, Data Visualization, and Web Scraping

- ✓ 1. Advanced Numerical Python Numpy Tutorial
- 2. Data Cleaning and Wrangling with Pandas Advanced Pandas Tutorial
- 3. Exploratory Data Analysis using Matplotlib and Seaborn
- 4. Basic and Advanced Web Scraping using BeautifulSoup
- 5. Basic and Advanced Web Scraping using Selenium

Month 3

Part 1



Practical Statistics for Data Scientists

- 1. Introduction to Databases (What are Databases), (What is MySQL),
 (What is RDBMS), (RDBMS v/s NoSQL)
- 2. Data Base Workflows Understanding Entity Relationship Diagram,
 Understanding Normalization (1NF, 2NF, 3NF, BCNF)
- ❖ 3. Structured Query Language (SQL) CRUD Operations
- 4. Data Aggregation Functions (GroupBy), (OrderBy), (HAVING), (COUNT, SUM, MIN, MAX, AVG)
- 5. Joins in SQL Primary Key and Foreign Key, Constraints, Set Operations,
 DML Savepoint, Rollback



Git and GitHub

- 1. Introduction and Overview (Understanding Repositories, Branches, and Commits), (Setting up Git and GitHub)
- 2. Versions Control with Git, Repository Management, and Collaboration
- 3. Workflow Automation with GitHub GitHub Actions, Automating CI/CD
 Pipelines for Data Engineering Projects
- 4. Security and Compliance in GitHub Managing Access Permissions,
 GitHub Pages, Documentation and Wikis
- 5. Integrating GitHub with other tools and Cloud Platforms
- 6. Advanced Techniques Rebasing and Cherry picking Commits, Git for Automated tasks, Stashing changes, and using the reflog

Month 4

Part 1



MongoDB: A NoSQL Database

- 1. Introduction to MongoDB Overview, Applications and Use Cases,
 Relational Databases vs Document Oriented Databases
- 2. MongoDB Architecture (Core Concepts Documents, Collections, Databases), (JSON & BSON Data Formats), (MongoDB Server), (Replica Sets and Sharding)
- 3. NoSQL Queries CRUD Operations, Querying Documents
- 4. Data Modeling Schema, Design, Embedding vs Referencing, Arrays &
 Nested Documents, Indexing Strategies

- 5. Aggregation Framework Introduction, Pipeline Stages \$map \$group
 \$Project etc., Aggregation Transformation and Analysis, Performance Tuning
- ✓ 6. Transactions and Concurrency ACID transactions, Section based transactions, Optimistic Concurrency Control
- 7. MongoDB Indexing Creation and Management of Indexes, Types of Indexes
- 8. Replication and High Availability Setting up and managing Replica Sets, Automatic Failover and Recovery, Read and Write Concerns in Replica Sets
- 9. Sharding for Scalability Introduction, Shard Keys and Chunk Distribution,
 Balancing and Mitigating Chunks, Managing Sharded Clusters
- ✓ 10. Advanced MongoDB Concepts
 - 10.1 Authentication and Authorization for Data Security, Role-based access control, Data Encryption, Auditing and Logging
 - 10.2 Performance Tuning MongoDB Atlas, Ops Manager, Profiting and Optimizing Queries, Resource Management and Capacity Planning
 - 10.3 MongoDB with different Programming Languages, Integration with Big Data Tools Spark & Hadoop, Using MongoDB and BI tools for Data Visualization

Part 2



Elasticsearch as a NoSQL Database

- 1. Introduction to Elasticsearch Use Cases, Core Features, Elasticsearch vs
 Other NoSQL Databases
- 2. Elasticsearch Architecture Cluster, Nodes, Indices, Shards, Replicas, how data is stored in JSON documents, Role of Mappings

- - 3.1 Schema Design, Nested and Parent-Child Relationships
 - 3.2 Using Rest APIs for CRUD Operations, Bulk API for effectively indexing large volumes of data
 - 3.3 Integration with tools like Logstah, Beats, Apache Kafka, etc. for ingesting data
- ✓ 4. Search and Querying Query DSL (Domain Specific Language), Search
 APIs for basic and complex queries, Filters and Aggregations
- 5. Miscellaneous
 - 5.1 Data Management Index Management, Aliases, Reindexing
 - 5.2 Performance Optimization- Indexing Performance, Search Performance, Shard Allocation
 - 5.3 Monitoring and Maintenance (Monitoring Tools like Kabana, Elastic Stack Monitoring, etc.), Cluster Health, Backup and Restore
 - 5.4 Security Authentication and Authorization, Role-based access control, SSL/TLS for secure data communication
- 6. Advanced Techniques using Elasticsearch
 - 6.1 Real-Time Data Analytics and Monitoring, Data Pipelines, Log Management and Event Data Analysis
 - 6.2 Machine Learning for Anomaly Detection and Predictive Analytics
 - 6.3 Geo Spatial Queries, Scripting and Extensions



Hadoop Ecosystem

- ✓ 1. Introduction to Apache Hadoop Overview, History, Use Cases for Big Data
- 2. Hadoop Architecture HDFS, YARN, MapReduce, Data Replication, and Block Management, How does Hadoop achieve fault tolerance?
- 3. Hadoop Distributed File System (HDFS) Architecture, File operations,
 Data Replication, Control and Security in HDFS
- ✓ 4. Yet Another Resource Negotiator (YARN) Architecture, Resource Allocation and Management, Job Scheduling and Monitoring
- 5. MapReduce Model (Basics Mapper, Reducer, Combiner, Partitioner),
 Running and Writing MapReduce Jobs, Optimization Techniques
- 6. Data Ingestion and ETL Processes
 - 6.1 Apache Sqoop for Importing and Exporting Data
 - 6.2 Apache Flume for Real-time Data
 - 6.3 Apache Pig and Apache Hive for Data Transformation
- ✓ 7. Data Processing and Analytics Apache Pig and Apache Hive, Integrating Apache Spark with Hadoop for Advanced Analytics
- 9. Deployment, Monitoring, and Management in the Hadoop Ecosystem
 - 9.1 Monitoring using Ambari and Cloudera
 - 9.2 Collection and Analysis of Metrics
 - 9.3 Scaling, Backup, and Recovery Practices
 - 9.4 Troubleshooting and Debugging

- 10. Hadoop Ecosystem Advanced Concepts
 - 10.1 HDFS Federation and High Availability, YARN Capacity and Fair Schedulers
 - 10.2 Customizing and Fine Tuning MapReduce
 - 10.3 Integration with Apache Kafka for Real-Time Data
 - 10.4 Using Hadoop with Cloud Platforms AWS, GoogleCloud, Microsoft Azure



Apache Spark: A Unified Analytics Engine

- 1. Introduction to Apache Spark Overview, Key Theoretical concepts:
 RDD, DAG, SparkContext, SparkSession
- 2. Spark Architecture
 - 2.1 Cluster Managers Standalone, YARN, Mesos, Kubernetes
 - 2.2 Executors, Workers, Job, Task, and Stage Concepts
 - 2.3 How does Spark achieve fault tolerance?
- 3. Spark Core Concepts RDDs Working, Pair RDDs operations and usage, Broadcast variables and accumulators
- ✓ 4. Spark SQL SQL Operations, DataFrames and Datasets,
 Interoperability b/w DataFrames and RDDs, Performance Optimization
- 5. Data Processing with Spark ETL Processes, (Data Sources HDFS, S3,
 Cassandra, HBase, JDBC), File formats
- 6. Spark Streaming DStreams, Structured Streaming, Window
 Operations, Stateful Transformations, Checkpointing

- 7. Machine Learning with Spark
 7.1 Pipelines, Transformers, Estimators
 - 7.2 Feature Engineering with Spark
 - 7.3 Classification, Clustering, Regression, Collaborative Filtering
- 8. Graph Processing Creating and Transforming Graphs using GraphX,
 PageNet, Triangle Counting, Connected Components
- 9. Advanced Spark Concepts Shuffles, Data Serialization, Performance
 Tuning and Configuration
- 10. Deployment using Spark Debugging and Troubleshooting



Apache Hive for Data Engineering

- 1. Introduction to Apache Hive Overview, Use Cases in Real World,
 Comparison with SQL and RDBMS
- 2. Hive Architecture (HiveQL, Metastore, Driver, Compiler, Execution Engine, and HiveServer2), Interaction of Hive with Hadoop
- 3. Hive Query Language (HiveQL)
 - 3.1 Basics of HiveQL, Data Definition Language, Data Manipulation Language
 - 3.2 Create, Read, Update, Delete, Insert operations
 - 3.3 Querying Data in HiveQL SELECT, JOIN Subqueries
 - 3.4 Functions in HiveQL User-Defined Functions, User-Defined Aggregate Functions
 - 3.5 Windowing and Analytics Functions
 - 3.6 Using Views and Indexes
 - 3.7 Writing and Optimizing Complex Queries

- ✓ 4. Hive Data Modeling, Data Types, and File Formats
 - 4.1 Partitioning and Bucketing
 - 4.2 Table Properties and Constraints, External vs Managed Tables
 - 4.3 Complex Data Types Arrays, Maps, Structs
 - 4.4 File Formats TextFile, SequenceFile, Optimized Row Columnar (ORC), Parquet, Avro
- 5. Hive Security and Performance Tuning Authentication, Authorization,
 Role-Based Access Control
- Query Optimization Techniques, Indexing and Partition Pruning,
 Configuring and Tuning Hive Parameters
- ▼ 7. Data Ingestion and ETL Processes, Monitoring Hive Performance
- 8. Hive on Cloud Platforms AWS EMR, GoogleCloud Dataproc, Azure HDInsight



Processing Streaming Data using Apache Kafka

- 1. Introduction to Apache Kafka Overview, History, Use Cases for Real-Time Data Processing
- 2. Kafka Architecture (Brokers, Topics, Partitions, Replicas, Producers, Consumers, and ZooKeeper), How does Kafka achieve fault tolerance?
- 3. Creating and Managing Topics in Kafka
- 4. Understanding Partitions and Replicas in Kafka

- 5. Producers and Consumers
 - 5.1 Writing producers to send data to Kafka
 - 5.2 Writing consumers to read data from Kafka
 - 5.3 (Producer and consumer configurations), (Synchronous vs. asynchronous producer sends), (Consumer groups and message consumption)
- 6. Kafka Connect
 - 6.1 Introduction to Kafka Connect Setting up and configuring connectors
 - 6.2 Source and Sink connectors, Custom connectors development
 - 6.3 Common connectors for databases, file systems, and other data sources
- 7. Kafka Streams
 - 7.1 Introduction to Kafka Streams API
 - 7.2 Stream processing concepts: KStreams, KTables
 - 7.3 Writing and deploying stream processing applications
 - 7.4 Stateful processing and windowing operations
 - 7.5 Interactive queries and materialized views
- 8. Schema Management with Confluent Schema Registry -Introduction, Registering, and managing schemas, (Avra, Protobuf, and JSON Schemas)
- 9. Kafka Security, Monitoring, Management, Performance Tuning

10. Advanced Concepts in Apache Kafka

10.1 Kafka Transactions and exactly one semantics, Joins and Aggregation in Kafka Streams, Log Compaction, Handling Rebalances in Kafka Streams

10.2 Designing Pipelines with Kafka, Using Kafka for ETL Processes, Real-Time Data Transformation, Data Integration Patterns

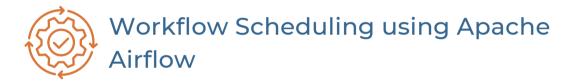
10.3 Kafka Integration with Hadoop and Spark

10.4 Using Kafka with Data Warehouses - Amazon Redshift, Snowflake

10.5 Real-time Data Analytics with Kafka

10.6 Kafka Integration with Cloud (AWS, GoogleCloud, Microsoft Azure)

Month 9



- 1. Introduction to Apache Airflow Overview, Use Cases, Comparison with other workflow orchestration tools
- 2. Airflow Architecture Schedulers, Web Server, Worker, Metadata Database, Directed Acyclic Graphs, Task Instances and their states, Executors
- Jirected Acyclic Graphs (DAGs) (Writing DAGs using Python), (Understanding Operators, tasks, and dependencies), (Built-in Operators), (Custom Operators and sensors)

- 4. Scheduling Workflows and Data Pipelines
 - 4.1 Designing Efficient Workflows
 - 4.2 Scheduling Complex Pipelines
 - 4.3 Implementing ETL pipelines
 - 4.4 Orchestrating data pipelines across multiple systems
 - 4.5 Handling dependencies and data consistency
- 5. Scheduling and Triggering
 - 5.1 Scheduling DAGs with cron expressions and time delta
 - 5.2 Trigger rules and conditional task execution
 - 5.3 Manual triggering of DAGs
 - 5.4 Handling time zones and daylight saving time
- - 6.1 Task retries, SLA, and timeouts
 - 6.2 Task dependencies and triggering rules
 - 6.3 Parallel task execution and task queues
 - 6.4 Handling task failures and retries
- 7. Airflow Plugins, Airflow UI, Security, Monitoring and Integrations
 - 7.1 Creating and using Airflow Plugins
 - 7.2 Navigating Airflow web interface
 - 7.3 Authentication, Authorization, Role-based access control, Securing Airflow web server
 - 7.4 Monitoring DAGs, Managing DAGs using Airflow CLI, Viewing Logs and Task Details
 - 7.5 Integration of Airflow with Databases and Cloud Services, Using Hooks for External System Interactions

- 8. Advanced Level Apache Airflow Tutorial
 - 8.1 Dynamic DAG generation, SubDAGs, Branching and conditional workflows
 - 8.2 Optimizing Airflow Performance, Scaling Airflow with Celery and Kubernetes, Resource Management
 - 8.3 Version Controlling DAGs and Configurations, Implementing CI/CD for Airflow DAGs, Testing and Validating before deployment
 - 8.4 Integration with Cloud Services AWS, GoogleCloud, Microsoft Azure

Part 1



Deploying Big Data Projects using Docker

- 1. Introduction and Overview to Docker, Benefits of using Docker for Data Engineering, (Key Concepts - Containers, Images, Docker Engine)
- 2. Working with Docker Images Pulling Images from Docker Hub,
 Custom Docker Images using Dockerfiles
- 3. Docker Containers Creating, Running, Stopping, Starting, Restarting,
 Inspecting, and Managing Docker Containers
- 4. Data Persistence in Docker Managing data within containers, Docker Volumes for Persistent storage, Bind mounts vs volumes, Backup and Restore for Data Volumes
- 5. Docker Networking (Bridge, Host, Overlay), Connecting Containers using Networks, Exposing and Publishing Container Ports, Network Security
- 6. Docker compose (Multi Container applications with dockercompose.yml), (Docker compose for development, testing, and Production)

- 7. Applications of Docker in Data Engineering
 - 7.1 Data Ingestion and ETL Processes
 - 7.2 Data Processing and Analytics Running Big Data Frameworks in Docker, Containerizing Jupyter Notebooks for Data Analysis
 - 7.3 Database Management Running Relational and NoSQL Databases like MySQL and MongoDB in Docker, Data Backup and Recovery for Databases
 - 7.4 Machine Learning and Artificial Intelligence Deploying ML & Al models in Docker, Docker for Reproducible ML Experiments
 - 7.5 Distributed Systems Distributed Data Pipelines using Docker, Orchestrating Distributed Systems with Kubernetes

Part 2



Cluster Monitoring and Data Visualization using Kubermetrics (Kubernetes Metrics)

- 1. Introduction to Kubermetrics Clusters, Nodes, Pods, Namespaces,
 Deployments, Services, ConfigMaps and Secrets, Benefits of
 Kubermetrics in Data Engineering
- 2. Storage Management Persistent Volumes (PVs) and Persistent Volume Claims (PVCs), Stateful Sets and Storage Classes
- 3. Networking Networking Fundamentals for Kubernetes, Network Policies, Controllers for Load Balancing and Routing

- 4. Advanced Kubermetrics Techniques
 - 4.1 Integrating Kubermetrics with CI/CD Pipelines, Deploying Updates and Managing Rollbacks
 - 4.2 Deploying Data Processing Frameworks on Kubernetes, Managing Databases in Kubernetes, Containerizing ETL Pipelines
 - 4.3 Multicluster Management, Service Mesh for Microservices Management, Kubernetes Operators for Managing Complex Applications
- 5. Miscellaneous
 - 5.1 Resource Management, Monitoring and Logging, Using Helm for Package Management
 - 5.2 Role-based access control, Secrets Management, Pod Security

Part 3



Automation in Data Engineering using Jenkins

- ✓ 1. Understanding Jenkins as a continuous integration and continuous delivery (CI/CD) tool.
- 2. Jobs and Pipelines in Jenkins
- 3. Version Control using Git and GitHub in Jenkins
- 4. Pipelines in Jenkins Managing Dependencies and Sequential Tasks,
 Stages and Steps for Pipeline Workflows, Handling Errors in Pipelines
- ◆ 5. Building and Testing Automating processes for Data Engineering Applications, Implementing Automated Testing, Jenkins agents and executors

- ◆ 6. Deployment and Release Automating Deployment with Jenkins Pipelines, Continuous Deployment, Blue-Green Deployments and Canary Releases
- 7. Miscellaneous
 - 7.1 Monitoring Jenkins Pipelines executions and build statuses, Configuring Email Notifications for Failures and successes in Pipelines, Pipeline Health Check
 - 7.2 Role-based access control, Securing Credentials and Sensitive Information in Jenkins
 - 7.3 Optimizing Performance for Data Engineering Pipelines, Scaling Jenkins Infrastructure with Distributed Builds and Agents
 - 7.4 Jenkins Plugins, Building Custom Jenkins Plugins, Automated Data Pipelines with Jenkins



Cloud Computing using Amazon Web Services (AWS)

- 1. Introduction to Amazon Web Services (AWS) Overview, Key Services for Data Engineering, AWS Global Infrastructure
- 2. Core AWS Services
 - 2.1 Compute Amazon EC2, AWS Lambda, AWS Fargate
 - 2.2 Storage Amazon S3, Amazon EBS, Amazon EFS
 - 2.3 Networking Amazon VPC, AWS Direct Connect, Amazon Route 53
- 3. Data Warehousing using Amazon Redshift Architecture, Redshift Spectrum, Performance Tuning
- 4. Processing Data Lakes using AWS Lake Formation and Integrating Data Lakes with other AWS Services

- 5. Database Services with Amazon Web Services
 - 5.1 Relational Databases: Amazon RDS, Amazon Aurora
 - 5.2 NoSQL Databases: Amazon DynamoDB, Amazon DocumentDB (with MongoDB compatibility)
 - 5.3 Database Migration Service (DMS) for Data Migration
- 6. Big Data Processing
 - 6.1 Amazon EMR (Elastic MapReduce) (Setting up clusters), (Using Apache Hadoop, Spark, Hive, Presto)
 - 6.2 AWS Glue ETL (Extract, Transform, Load), Data Cataloging
 - 6.3 Amazon Kinesis Kinesis Data Streams, Kinesis Data Firehose, Kinesis Data Analytics
- 7. Analytics Amazon Athena (Querying data in Amazon S3), (Inegrating with AWS Glue), Amazon QuickSight (Visualizations)
- 8. Data Integration and Orchestration AWS Step Functions, AWS Glue Workflows, Amazon Managed Workflows for Apache Airflow
- 9. Machine Learning and Artificial Intelligence Amazon SageMaker, AWS
 ML Services (Comprehend, Rekognition, Polly, etc.), Building Data
 Pipelines for Machine Learning
- 10. Miscellaneous
 - 10.1 Security and Compliance Amazon Virtual Private Cloud, Amazon Identity and Access Management, Amazon Key Management Services, AWS Shield, AWS WAF
 - 10.2 Monitoring and Logging Amazon CloudWatch, AWS CloudTrail, AWS Config
 - 10.3 AWS Cost Management AWS Cost Explorer, AWS Budgets, AWS Pricing Calculator
 - 10.4 DevOps and Automation AWS CodePipeline, AWS CodeBuild, AWS CodeDeploy, Infrastructure as Code (IaC) with AWS CloudFormation and AWS CDK

Course + Internship

Course Overview & Time Duration:

- 11 Months of Practical & Module Training
- 100+ Expert-led Classes
- 200+ Hours of Comprehensive Learning
- 14 Specialized Modules
- 3-Month Internship

After the Preparation Placement opportunity























































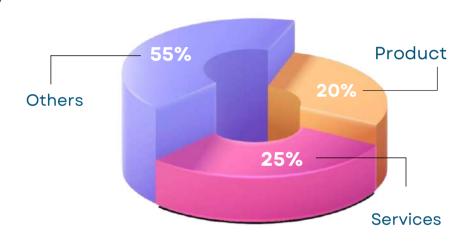


Data Engineering

Job Stability

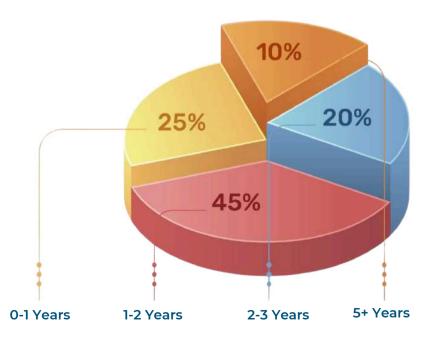
Data Engineering professionals are in high demand, ensuring significant job security in this field. This offers great motivation for those seeking a stable and reliable career path.

Learners' Industry Background



Learners' Work Experience





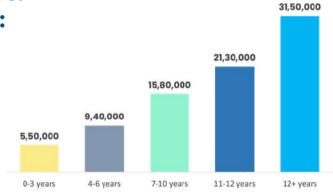
Take Your Career to the Next Level

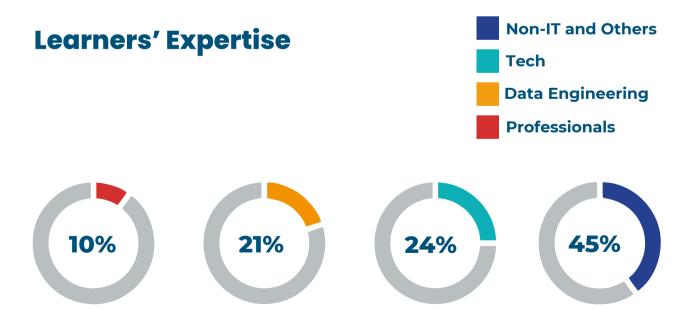
The global **Data Engineering** job market is projected to grow by **44% from 2021 to 2030**, resulting in the creation of 3.5 million new jobs worldwide. In India, it is anticipated that 309,000 new Data Engineering positions will emerge by 2030, constituting 9% of the global demand. The average salary for a Data Engineering professional in India ranges from approximately **Rs. 5 to Rs. 14 lakhs per annum.**

Data Engineering Job Roles: Salary Trends 2023-2024:

Salary By Experience

The **average median salary** of a data scientist in India is around **INR 21,00,000**





Program Details

Qualification:

Technical and Nontechnical Professionals with basic-level programming knowledge can also apply



Course Duration: 11 Months

Weekend Classes Saturday & Sunday: 2 hours/day

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Experienced Professional Data Engineer imparts valuable real-world expertise and efficient strategies, equipping students for achievement in the field.

TOTAL FEES:

₹ 2,99,000/-

Included+18% GST

EASY EMI

Registration Fee: ₹ 5000/-

Financing Partners











Certificates

Upon completing this Professional Certificate Program in Data Engineering, you will receive a program completion certificate from Digicrome, validating your expertise as a data engineering professional. In addition to this, you will earn eight more certificates as detailed below, and a three-month internship certificate. All these certificates are globally recognized and approved.

After the Completion of the Course, You'll get 9 Professional Certificates:

- Masters Program in Big Data Engineering and Cloud Computing
- 2 Fundamentals of Python Programming
- 3 Machine Learning and Artificial Intelligence
- 4 Big Data Professional
- 5 Cloud Computing using Amazon Web Services
- 6 Database Management using SQL
- 7 NoSQL Database Professional
- 8 Data Processing and Analytics
- 9 Automation and Deployment of Data Engineering Models

Internship Certificates

1 Internship Acknowledgement

2 Letter of Recommendation





Digicrome's certification programs are crafted to meet the demands of today's dynamic job market. These certifications are recognized for their rigorous standards and practical relevance, ensuring that you gain not only theoretical knowledge but also hands-on experience.

We are proud to have partnerships with multiple multinational corporations, which significantly enrich our certification programs. These collaborations ensure that our exams are industry-relevant and up-to-date with the latest trends and technologies.

Whether you are looking to advance in your current role or seeking new opportunities, Digicrome's certifications provide a robust foundation for career growth. Join us and take the next step towards achieving your professional goals with qualifications that are both respected and demanded by leading companies worldwide.

Digicrome is excited to announce the availability of a range of certifications designed to enhance your career prospects.

A learner can choose any one option out of the following:

Option - 1

Microsoft Certified: Power BI Data Analyst Associate



Choose any one from below:



Program

- Microsoft Azure Al Fundamentals
- ✓ Microsoft Office Specialist Excel Expert
- Microsoft Certified Educator Technology Literacy for Educators
- Microsoft Azure Data Fundamentals
- Microsoft Azure Fundamentals



Program

✓ IBM Certified Data Scientist - Machine Learning Specialist



Program

✓ PMI Project Management Ready ™



Program

- Information Technology Specialist Data Analytics
- Information Technology Specialist Artificial Intelligence
- ✓ Information Technology Specialist Python



Program

- Communication Skills for Business Professional Communication
- ✓ Communication Skills for Business English for IT



Option - 2

Choose any three from the given:



Program

- ✓ Microsoft Azure Al Fundamentals
- ✓ Microsoft Office Specialist Excel Expert
- Microsoft Certified Educator Technology Literacy for Educators
- ✓ Microsoft Azure Data Fundamentals
- ✓ Microsoft Azure Fundamentals
- ✓ Microsoft Office Specialist Excel Associate



Program

- Communication Skills for Business Professional Communication
- Communication Skills for Business English for IT



Program

- Information Technology Specialist Data Analytics
- Information Technology Specialist -Artificial Intelligence
- ✓ Information Technology Specialist Python



Program

✓ IBM Certified Data Scientist - Machine Learning Specialist



Program

✓ PMI Project Management Ready ™

Important Note: Students must pass the relevant exams in order to obtain these worthwhile certificates. The exam fees are fully covered by Digicrome's tuition fee, so there are no additional costs involved for the first attempt. Please note that this just includes one try. There will be additional charges for each attempt if a student fails the exam the first time and wants to retake it. In order to ensure that financial limitations do not impede your professional development, we want to offer a simple and reasonably priced certification pathway that upholds the quality and worth of our certification process.



Digicrome



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