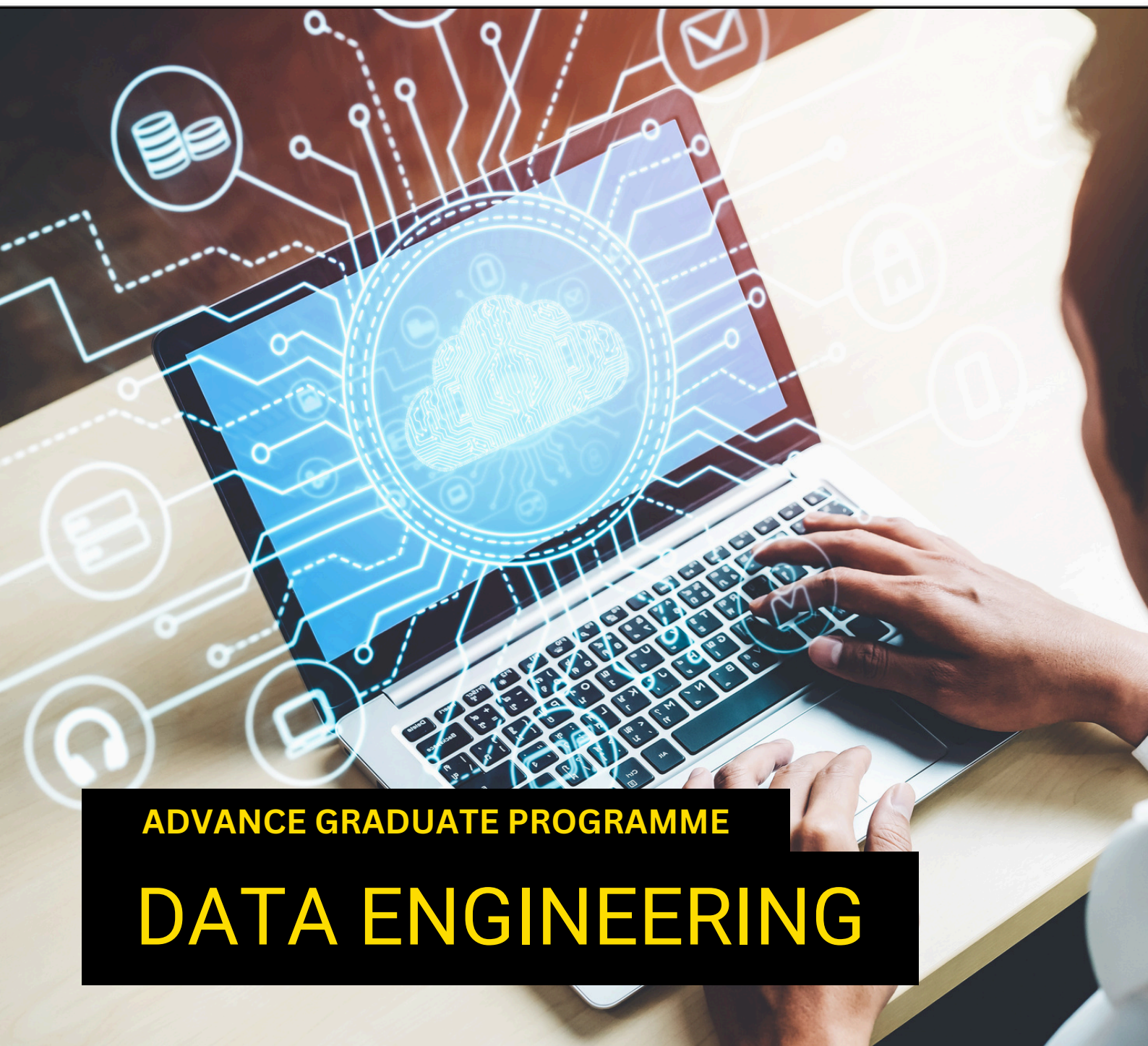




BROWSEJOBS



ADVANCE GRADUATE PROGRAMME

DATA ENGINEERING

***DESIGNED AND CURATED BY EX GOOGLE EMPLOYEES IN UK. READY TO WORK SYLLABUS.**



1 Million
Learners



1:1 Personalized
Mentorship



55% Average
Salary Hike

ADVANCE PROGRAMME IN DATA ENGINEERING

Launch your career in data engineering with this post graduate program designed by experts in the domain. The program is integrated with MITxMicroMasters, and you will learn from leading faculty at MIT along with live sessions by industry experts. Get in-depth training in core data engineering skills such as Python, SQL, AWS, Spark, Kafka, Apache Airflow, etc.

JOB ASSURED PROGRAMME

Hottest **Job of 21st Century**



1.1 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

46% of Data Engineers have a master's degree



High Demand

In 2024, India and the US will face a demand-supply gap of 400,000 Data Engineers

Our **Credentials**



1 Million +

Aspiring Active Students



1,000+

Industry-expert Instructors



400+

Hiring Partners



500+

Corporates Upskilled



55%

Average Salary Hike



155+

Countries' Learners

Who Can **Apply for the Course?**

- ✓ 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 Nontechnical Professionals with basic-level programming knowledge can also apply
- ✓ Project Managers

Application **Process**

The application process consists of three simple steps. Candidates have to submit their application. An offer of admission will be made to the selected candidates, and their application will be accepted upon the payment of the admission fee.

1

SUBMIT APPLICATION

Tell us a bit about yourself and why you want to join



2

ADMISSION TEST & APPLICATION REVIEW

Clear the admission test and have a personal interview with our interview panel



3

ADMISSION LETTER

Shortlisted candidates would be offered the admission letter



About Program

Browsejobs Certification in Data Engineering will provide you in-depth knowledge in SQL, Python, data pipelines, data transformation, Spark, and cloud services of AWS and Azure. Work on multiple real-world projects to gain knowledge on creating production-ready ETL and pulling data from multiple data sources, including real-time streaming services, and loading them into cloud data warehouses.



Learning Format
Online Boot Camp



3 Months
Live Classes



Career Services
BrowseJobs



Data Engineering
Certification

Key Highlights

- ✓ 3 Months of Live Sessions by Industry Experts
- ✓ 200 Hrs of Self-paced Videos
- ✓ 24*7 Support
- ✓ Integrated with **Browsejobs**
- ✓ Flexible Schedule
- ✓ Soft Skills Essential Training
- ✓ Career Guidance
- ✓ One-on-One with Industry Mentors
- ✓ 50+ Industry Projects & Case Studies
- ✓ E-learning Videos from **Browsejobs**
- ✓ Lifetime Free Upgrade
- ✓ Dedicated Learning Management Team

Program Pedagogy



Instructor-led Training
Get trained by top industry experts



Dedicated Learning Management Team
To help you with your learning needs



Self-paced videos
Learn at your own pace with world-class content



Projects and Exercises
Get real-world experience of projects



Hackathons
Get a sense of how real projects are built



Peer Networking and Group Learning
Improve your professional network and learn from peers



Gamified Learning
Get involved in group activities to solve real-world problems

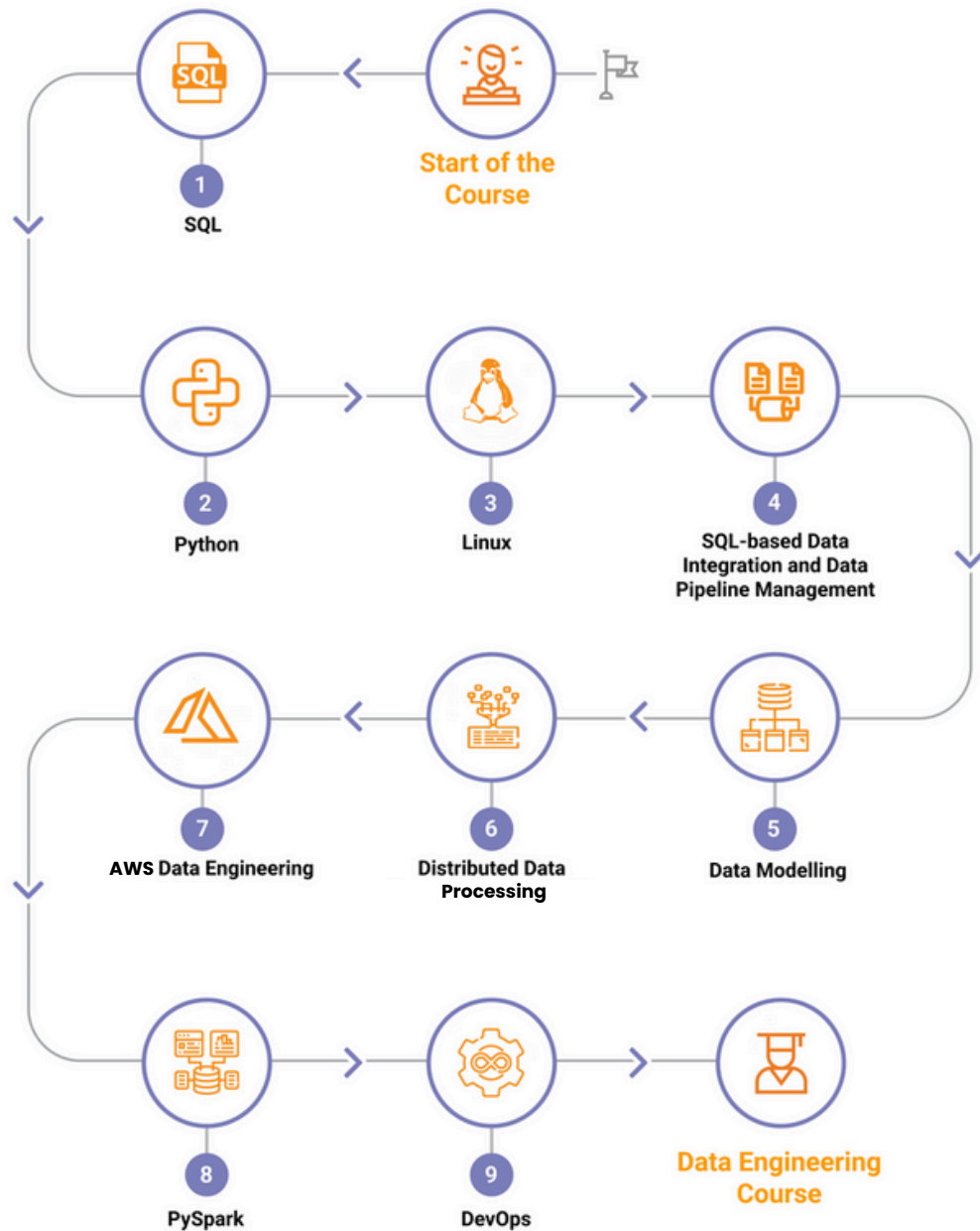


1:1 Personalized Learning
Hands-on exercises, project work, quizzes, and capstone projects

```
modifier_ob.select=1
bpy.context.scene.objects.active = modifier_ob
print("Selected" + str(modifier_ob)) # modifier ob is
modifier_ob.select = 0
print("New object selected object=0")
```

Live Courses

- Live Courses
- Self-paced



Self-paced Course

- AWS Big Data
- Power BI
- SSIS for Data Engineering

Python Basics

- Python Intro Comments
- Variables Data Types
- Numbers Casting Strings
- Booleans Operators Lists
- Tuples Sets Dictionaries If
- Else While Loop | For Loops
- Functions Lambda
- Functions

Pandas

- Intro Series DataFrames
- Read CSV Read JSON
- Analyse Data Cleaning
- Data Cleaning empty
- cells Cleaning Wrong
- Format Cleaning Wrong
- Data Removing
- Duplicates Pandas
- Correlations Pandas
- Plotting

Python Advanced

- Arrays Classes |
- Objects
- Inheritance
- Iterators
- Polymorphism
- Scope Modules
- Dates Math JSON RegEx
- PIP Try Except User Input
- File Handling Read, Write & Delete Files

SQL Advanced

- Join Left Join Right
- Join Self Join Group
- By Having Exists
- Case Stored
- Procedures
- Operators Create DB
- | Table Drop DB |
- Table Alter DB |
- Table Primary Key
- Foreign Key Views

Pyspark

- Features Advantages
- Modules and Packages
- Cluster Managers
- Installation Architecture
- Sparksession
- Sparkcontext RDD
- Parallelize Repartition or
- Coalesce Broadcast
- Variables Accumulator

SQL

- Intro Syntax
- Select Select
- Distinct Where
- Order by And |
- Or | Not
- Insert Into Null
- Values Update
- Delete Select Top
- Min and Max Count
- | Sum | Avg Like |
- Wildcards In |
Between Aliases

Pyspark DataFrame

- Create an Empty DataFrame Convert RDD to DF Convert DF to Pandas Show()
- StructType and StructField
- Column Class Select() Collect() WithColumn()
- withColumnRenamed()
- where() & filter() drop() & dropDuplicates() orderBy() and sort() groupBy() join()

Pyspark DataFrame (cont)

- union() & unionall()
- unionByName() UDF
- tranform() apply() map()
- flatMap() foreach()
- sample() vs sampleBy()
- fillna() & fill() pivot()
- partitionBy() MapType

Pyspark SQL Functions

- Aggregate Functions
- Window Functions Date and Timestamp
- Functions JSON
- functions

AWS Concepts

- Intro Cloud Computing
- Benefits EC2 EC2
- Instance Types EC2
- Pricing EC2 Scaling EC2
- Auto Scaling AWS Load
- Balancing AWS Lambda
- AWS Containers AWS
- Availability zones AWS
- CloudFormation AWS
- Elastic Beanstalk AWS S3
- AWS RDS AWS Redshift
- IAM CloudWatch AWS
- cloud compliance

GIT

- Intro New files Staging
- Environment Commit
- Help Branch Branch
- Merge Pull From
- GitHub Push to GitHub
- GitHub Branch Pull Branch
- from GitHub Push Branch
- to Github Github Flow
- Github Fork Git Clone from
- Github Git ignore Rever |
- Reset | Amend

Apache Airflow

- Fundamental concepts
- Working with Taskflow
- Building a running pipeline Object Storage

Browsejobs Career Services



500+
Webinars



600+
Job Shares



400+
Hiring Partners



55%
Avg. Salary Hike*

What Makes Us **Tick**



Career-oriented Sessions

Attend 10+ career-oriented sessions by industry mentors and prepare your career trajectory



Profile Building

Craft a Data Engineers resume and LinkedIn profile to make an impression on top employers



Mock Interview Preparation

Prepare with mock interviews including most asked questions by top employers



1:1 Mentoring Sessions

Get 1:1 guidance at every step in your career transition to Data Engineers



Assured Interviews

Get job Opportunities with Top MNC's & Startups upon movement to Placement Pool**



Dedicated Job Portal Access

Get exclusive access to 200 job postings per month on browsejobs job portal



Job Fairs

Job fairs are conducted regularly to introduce learners to major organizations



Hackathons

Work in teams and get exclusive access to hackathons



BROWSEJOBS

About Browsejobs

We are Browsejobs, an award-winning digital consulting firm, globally recognized for our exceptional service in the field of artificial intelligence (AI), data science, and software development. With roots dating back to 2013 in London, we are known for providing state-of-the-art technology solutions that drive business performance and enable future readiness. We expanded our operations to India in 2020 and have since been voted the Most Trusted Consulting Firm in India in 2023.



1 Million

Learners & 500+ Corporates across 5+ Countries
upskilling on Browsejobs Platform



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