

Data Engineering (Big Data)

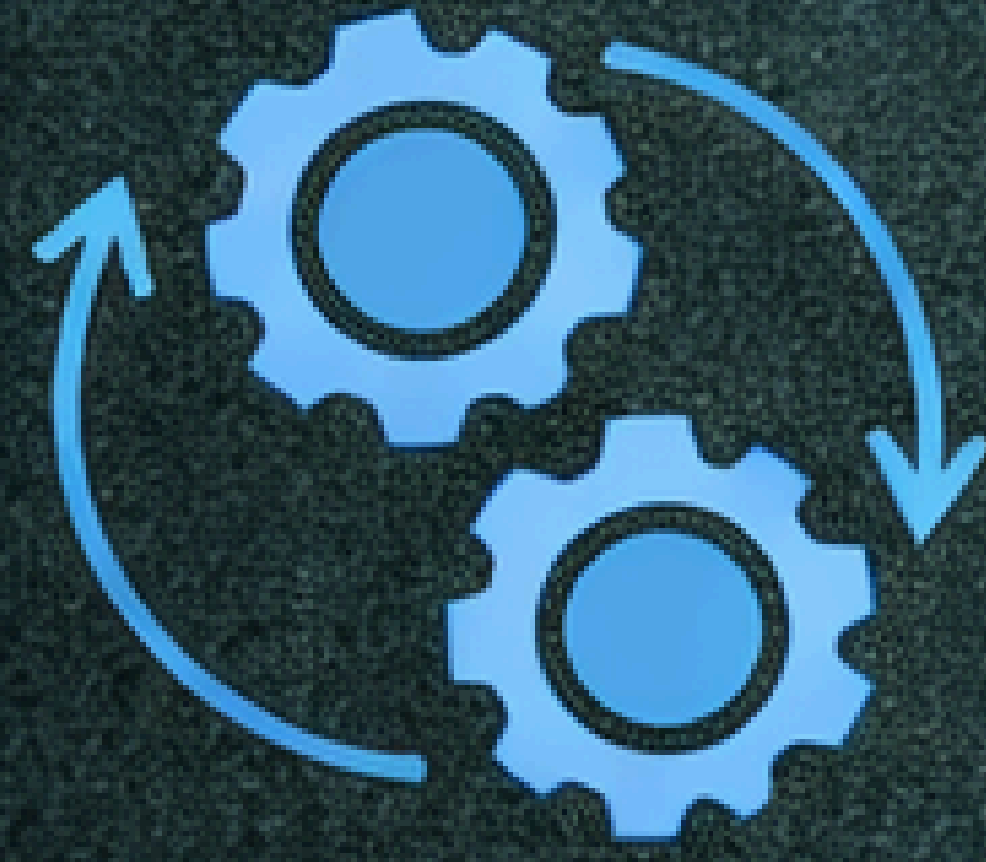
Summer Industrial Internship Program

(Batches start in May, June & July)

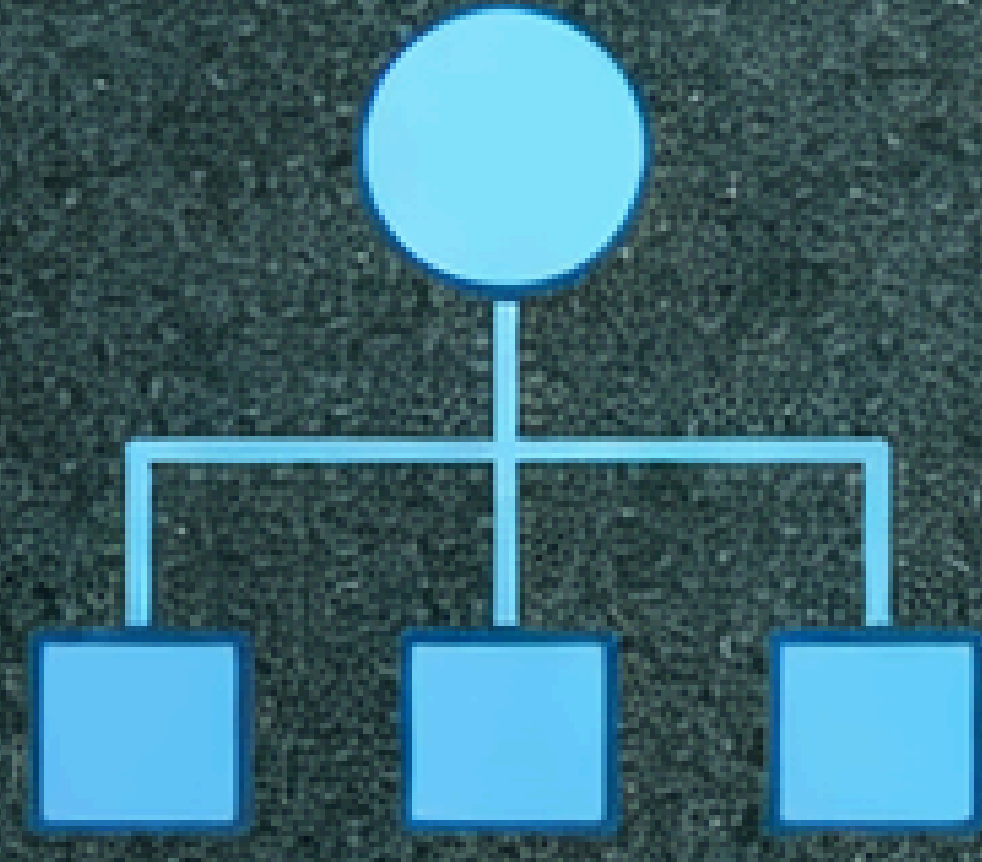
DATA ENGINEERING



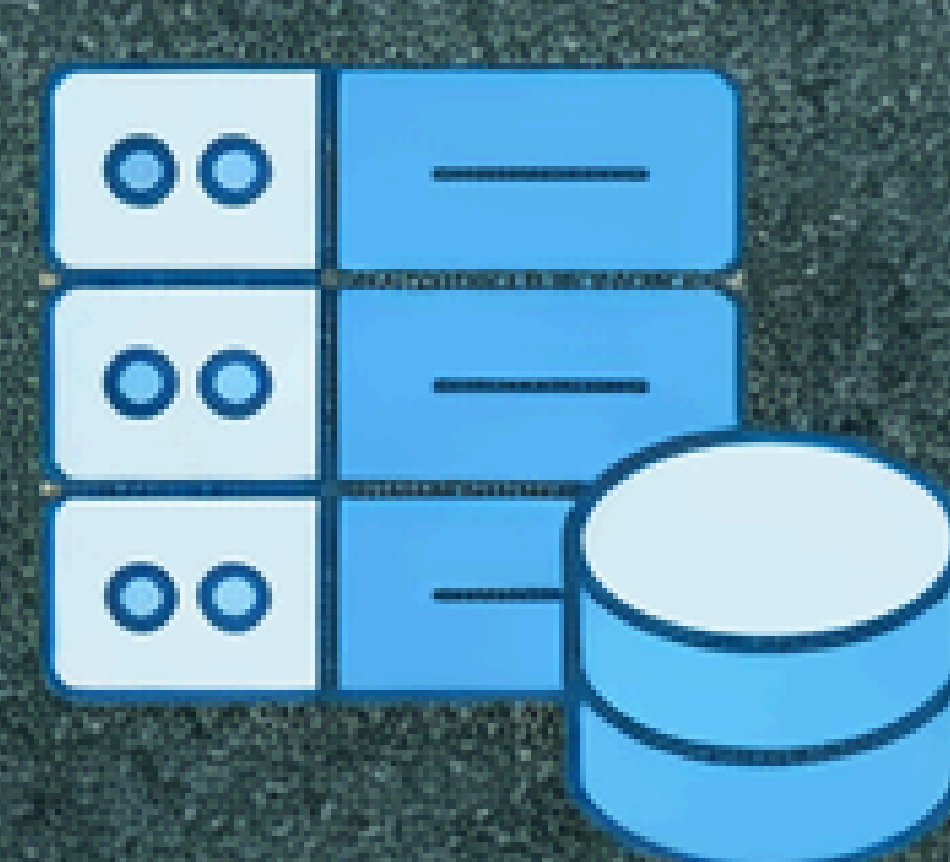
DATA LAKE



PRE-PROCESSING



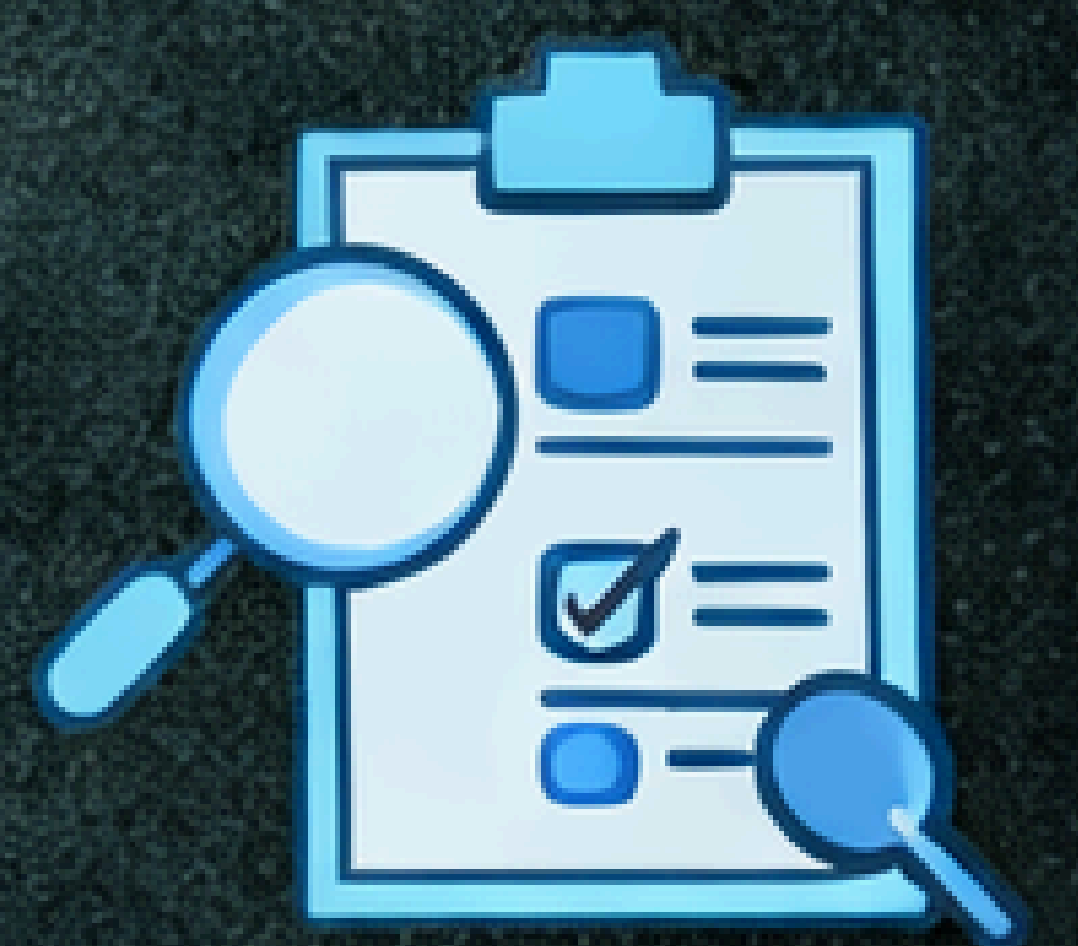
CLASIFICATION



DATABASE



STATISTICS



EVALUATION



About The Program:

Build a strong foundation in Data Engineering & Big Data technologies through REGex Software's industry-oriented Summer Internship Program. Work on real-world projects and learn from Industry experts. The program is available Online and Offline in Jaipur & Ahmedabad.

If you want to kickstart your career in Data Engineering, this summer internship program by REGex is the perfect opportunity for you.

Mode:

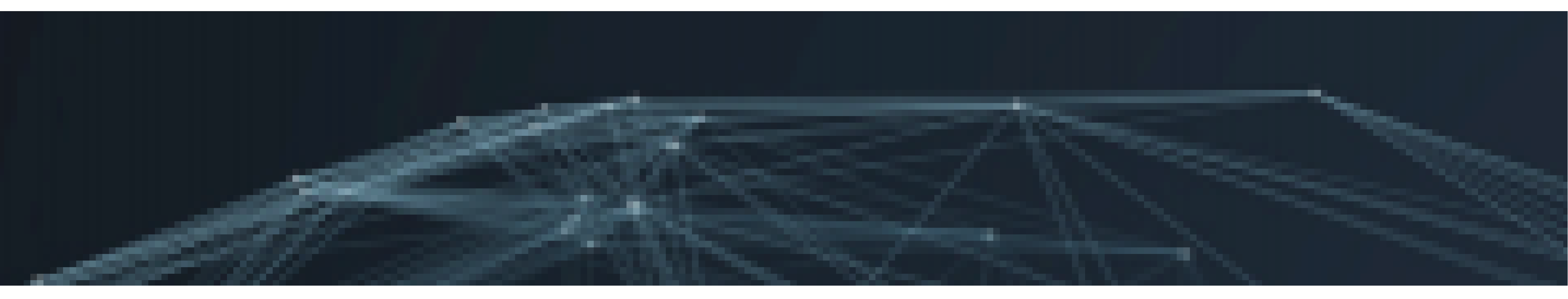
Physical (Jaipur, Ahmedabad)
or
Online (Google Meet)

Duration:

45 - 60 Days

Participants:

25-30 per Batch





Hands-On Experience

Work on real-world projects, solve challenges, and deliver impactful results.



Expert Mentorship

Get guidance from top-notch professionals in your domain.



Career Growth

Boost your resume & open doors to exciting job opportunities.



Certifications

Earn a certificate of completion & a Letter of Recommendation.



Live Sessions

Live Sessions by Expertise Trainers and Access of Recorded Session is also available

Mentorship Support

Mentorship Support available for all Students to clear all of your doubts

Live Projects

Get a chance to work on Industry Oriented Projects to implement your learning

Opportunities

REGex May provide Internship / Job opportunities to the best Students .

Course Content:

Walkthrough the journey of Data Engineering

- **Introduction to Python Programming**
- **DataTypes in Python**
- **Control flow and loops statement**

Collection Datatype in Python

- **List methods like append(), extend(), pop() & more**
- **List vs tuple in Python**

Data Warehouse vs Database

- **Dimension Modeling in Data warehouse**
- **Star Schema , Snowflake schema and Galaxy schema**

Overview on cloud computing

- **Types of cloud**
- **IAAS vs SAAS vs PAAS**
- **IAM Fundamentals & Access Control**
- **Amazon S3 Fundamentals Walkthrough**

Snowflake - The Data Warehouse platform

- **Datatype in Snowflake**
- **Internal vs External stage**
- **Querying & Performance Optimization**
- **Tasks, Snowpipe & Automation**
- **Project: Designing Real time ETL Pipeline on Snowflake & Cloud**

Apache Spark - The Ultimate framework

- **Overview of Apache Spark, history, ecosystem**
- **RDD vs Dataframe**
- **Introduction to Dataframes**
- **Introduction to Delta Lake**
- **Transaction log & reliability**

Introduction to Delta Lake

- **Overview of Delta Lake & data lake challenges**
- **Data Lake vs Delta Lake**
- **Delta Architecture**
- **Time travel in Spark with Delta Table**
- **Schema Evolution in Delta Table**

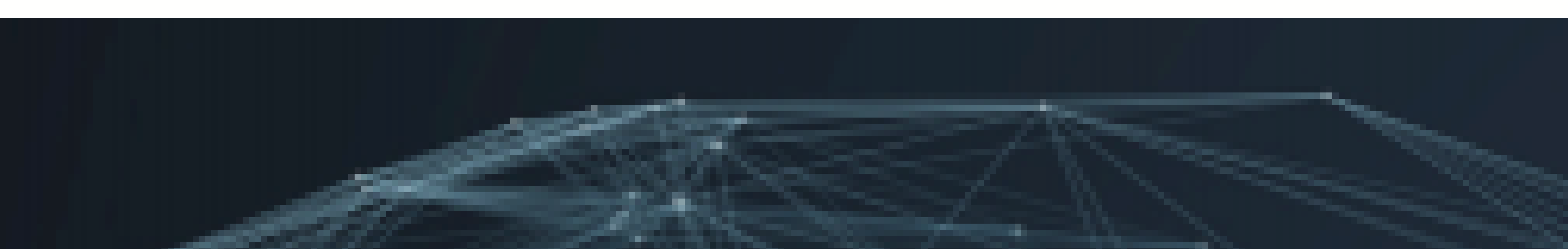
Developing Declarative Data Pipelines

- Introduction to Medallion Architecture
- Concept and purpose of layered data design in modern data platforms
- End-to-end data movement: Bronze → Silver → Gold
- Advanced Design & Implementation - Medallion Architecture
- CDC handling & MERGE strategies
- Partitioning, Z-ordering, file compaction
- Building Declarative Data Pipelines

Power BI Fundamentals & Data Preparation

- Overview of Microsoft Power BI
- Installing Desktop, workspace layout, ribbon
- Charts, tables, slicers, maps, and KPI cards walkthrough
- Measures, calculated columns, basic functions (SUM, AVERAGE, IF)
- Advanced DAX & Analytics
- CALCULATE, FILTER, RELATED, RANKX, and conditional formatting
- Overview of mobile reports and embedding

Kafka Fundamentals & Spark Integration

- Overview of Apache Kafka, architecture, topics, partitions, brokers
 - Kafka Producers & Consumers
 - Kafka Cluster Setup
 - Define streaming use case (e.g., real-time sales or IoT sensor data pipeline)
 - End-to-end streaming pipeline design: Kafka → Spark → Delta/S3 → Analytics
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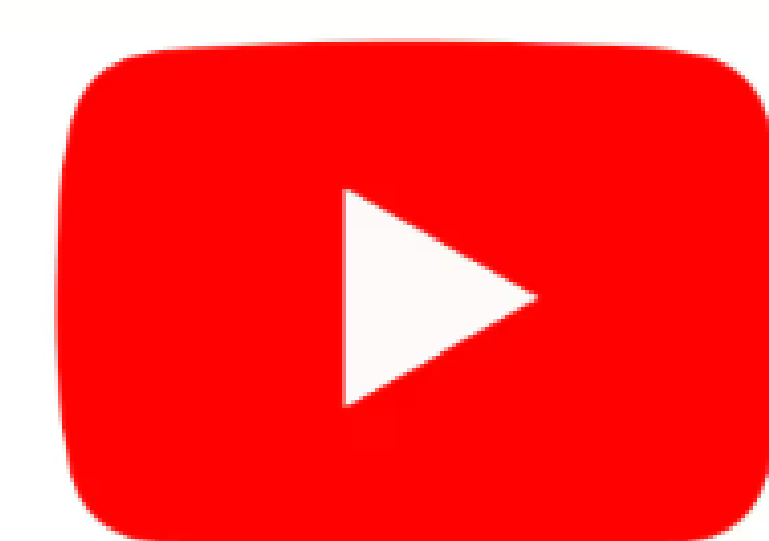
KEY FEATURES & CASHBACK POLICY:

Key Features

- No Previous Knowledge Required
- Learn from Developers
- Mentorship Support
- Get Letter of Recommendation (LOR) from REGex
- Physical/Online Sessions
- Live & Interactive Sessions
- Get Internship Project Completion Certificate

Cashback Policy

Your friend will get upto 10% discount with your code and you will also get cashback for each Paid Referral In Our Placement Guarantee Programs



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