

YOUR NEXT CHAPTER

Data Engineering

Build reliable data pipelines from ingestion through transformation, testing and analytics, with clear operational ownership.

12 WEEKS

Live + recorded + projects

120 TOTAL HOURS

10 hours / week

₹34,900

Tuition before taxes

PLANNED FIRST / FINAL SESSION

2026-11-03 / 2027-01-21

WEEKLY LIVE SCHEDULE

Tuesday & Thursday · 20:00-21:30 IST

APPLY BY

2026-11-01

LEARNING-HOUR BREAKDOWN

36 live + 18 recorded + 66 independent practice

Who this is for

- + Software engineers entering data infrastructure
- + Analysts moving beyond reporting
- + Data professionals strengthening production pipelines

Before you join

- + Basic Python programming
- + SQL joins and aggregations
- + Git familiarity and understanding of tabular data

Apply free. Your application records interest; it does not confirm admission or reserve a paid seat. All seven tracks run independently. Holiday adjustments will be shared before admission.

WHAT YOU WILL LEARN

A curriculum built for practice.

WEEK 1-2

Data architecture and SQL foundations

- + Source systems and analytical requirements
- + SQL query patterns and performance
- + Data contracts and schemas
- + Designing a small pipeline

WEEK 3-4

Ingestion and storage

- + APIs, files and incremental loads
- + Parquet and partitioning
- + Schema changes and bad-record handling
- + Idempotent ingestion and backfills

WEEK 5-6

Transformation and analytics modelling

- + Dimensional models and grain
- + dbt transformations and dependencies
- + SQL testing and documentation
- + Incremental models and historical data

WHAT YOU WILL LEARN

A curriculum built for practice.

WEEK 7-8

Orchestration and quality

- + Airflow workflows and scheduling
- + Retries and dependency handling
- + Freshness and quality checks
- + Monitoring and data incident response

WEEK 9-10

Scale and streaming concepts

- + Spark execution and partitioning
- + Batch versus streaming trade-offs
- + Event schemas and late-arriving data
- + Performance and cost measurement

WEEK 11-12

End-to-end pipeline capstone

- + Ingestion to analytical model
- + Observability and recovery drill
- + Data documentation and runbook
- + Project demonstration and review

Tools and methods

Python / SQL / PostgreSQL / dbt Core / Apache Airflow / Apache Spark / Parquet / Docker

BUILD AND APPLY

Your learning, put to work.

Capstone directions

E-commerce analytics pipeline

Load sample orders and events, build tested analytical models and publish documented metrics.

Reliable incremental ingestion

Create an API-to-warehouse pipeline with deduplication, backfills, freshness monitoring and recovery procedures.

Data quality operations dashboard

Track failed checks and late datasets, then investigate and repair a simulated data incident.

Instructor expertise we are recruiting

Senior data engineer with owned production pipelines. Practical Python, SQL, orchestration, data modelling and quality experience. Evidence of operational debugging and clear project-review feedback. Faculty being finalised.

Tuition and application

Launch tuition: ₹34,900 per learner, before applicable taxes. Includes planned live sessions, recordings, resources, assignments and project reviews. Paid tools and external certification exams are extra unless included in your admission offer.

Named faculty, final timetable, final payable amount and written cancellation/refund terms will be confirmed before admission and payment. Six months of post-course resource access is planned. No university affiliation, placement or salary guarantee is offered.

Apply for your November cohort

Visit the ShawGrid Academy website, open this programme and select Apply for this track. Keep the on-screen application reference and downloadable receipt. Email acknowledgements will be enabled after sender verification.