

Secure Flow Infotech©

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JOB-READY PROGRAM



Azure Data Engineering + Microsoft Fabric + AI

Industry-Ready • Hands-On • Job Placement Focused

10

Modules

2

Months

2

Live Projects

100+



Powered by Secure Flow Infotech | Secureflowinfotech@gmail.com | <https://secureflowinfotech.com>

PROGRAM OBJECTIVE

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To build a job-ready Azure Data Engineer with strong fundamentals, practical skills, and interview readiness using the latest tools —Microsoft Fabric and AI integration —with minimal coding complexity.



Strong Fundamentals

SQL, Python, Data Warehousing & Cloud basics built from the ground up for real-world use.



Practical Skills

Hands-on labs with ADF, Databricks, Synapse, Microsoft Fabric and end-to-end data pipelines.



Interview Readiness

100+ Q&A, mock interviews, resume building & placement assistance for top data roles.



WHO IS THIS PROGRAM FOR?



IT Professionals 3–7 Years Exp

Developers, DBAs, BI Analysts, ETL engineers wanting to move into cloud data engineering.



Career Switchers Non-IT to Data

Non-coding backgrounds ready to break into Azure and modern data platforms from scratch.



Informatica / SSIS Legacy to Cloud

Professionals using legacy ETL tools looking to migrate skills to Azure cloud ecosystem.



Data Analysts SQL + Power BI Users

Analysts upgrading from reporting to full data engineering with Fabric and Databricks.



Freshers / Graduates Zero Prerequisites

Entry-level candidates with a desire to learn cloud data engineering from the ground up.



Azure Beginners No Cloud Background

Individuals new to Azure who want a structured, job-oriented data engineering path.



TECHNOLOGY STACK

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Database

SQL Server



Language

SQL · Python · PySpark



Cloud ETL

Azure Data Factory (ADF)



Big Data

Azure Databricks



Storage

Azure Data Lake Gen2



Analytics

Azure Synapse Analytics



Automation

Azure Logic Apps



Modern Platform

Microsoft Fabric



AI Layer
ChatGPT · Copilot · Prompt Eng.



CURRICULUM OVERVIEW — 10 MODULES



01

SQLServer + SQL
Foundation

02

Python (Data-Focused)
Language

03

AzureData Factory
Cloud ETL

04

AzureData Lake
Storage

05

Databricks + PySpark
Big Data

06

Azure Synapse
Analytics

07

AzureLogic Apps
Automation

08

Microsoft Fabric
Core USP ★

09

AI Integration
Next-Gen

10

Projects + Interview Prep
Placement

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MODULE DEEP DIVE —01 to 05

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MOD 01 SQL Server + SQL

- ▶ SQL Server setup & real-
- ▶ DDL / DML / Joins /
- ▶ Stored Procedures &
- ▶ Performance tuning &
- ▶ Interview-focused query

MOD 02 Python (Data-Focused)

- ▶ Python basics: variables,
- ▶ Pandas for data
- ▶ Python in data pipelines
- ▶ File I/O (CSV, JSON,
- ▶ Automation scripts for

MOD 03 Azure Data Factory

- ▶ ETL pipelines &
- ▶ Linked Services,
- ▶ Parameterization of
- ▶ Triggers: scheduled,
- ▶ Pipeline monitoring &

MOD 04 Azure Data Lake Gen2

- ▶ Storage concepts &
- ▶ File formats: CSV,
- ▶ RBAC & access control
- ▶ Integration with ADF &
- ▶ Data Lake best practices

MOD 05 Databricks + PySpark

- ▶ Databricks workspace &
- ▶ PySpark DataFrames &
- ▶ Delta Lake & Delta tables
- ▶ Medallion architecture
- ▶ Streaming with



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MODULE DEEP DIVE —06 to 10

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MOD 06 Azure Synapse

- Synapse vs Fabric
- SQL Pools: serverless &
- PolyBase & external
- Synapse pipelines
- Market awareness

MOD 07 Azure Logic Apps

- Workflow automation
- Trigger-based pipelines
- Integration with ADF &
- Email alerts on pipeline
- Real-world automation

MOD 08 Microsoft Fabric ★

- OneLake & Lakehouse
- Dataflows Gen2 (no-code)
- Fabric Pipelines &
- Fabric Warehouse & SQL
- Power BI integration in

MOD 09 AI Integration

- ChatGPT for SQL &
- AI for debugging
- Prompt engineering
- Copilot in Microsoft
- AI-assisted data pipelines

MOD 10 Projects + Placement

- Project 1: ADF + SQL
- Project 2: Fabric + AI
- Resume (ATS format)
- LinkedIn & GitHub
- 100+ Q&A + Mock



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DATA WAREHOUSE CONCEPTS



Fact & Dimension Tables

Fact tables hold measurable metrics (sales, revenue, quantity). Dimension tables provide context (who, what, where, when). The backbone of any analytical warehouse.

Star Schema

Simplest DW schema —one central Fact table linked to multiple Dimension tables. Optimized for read-heavy analytical queries with minimal joins.

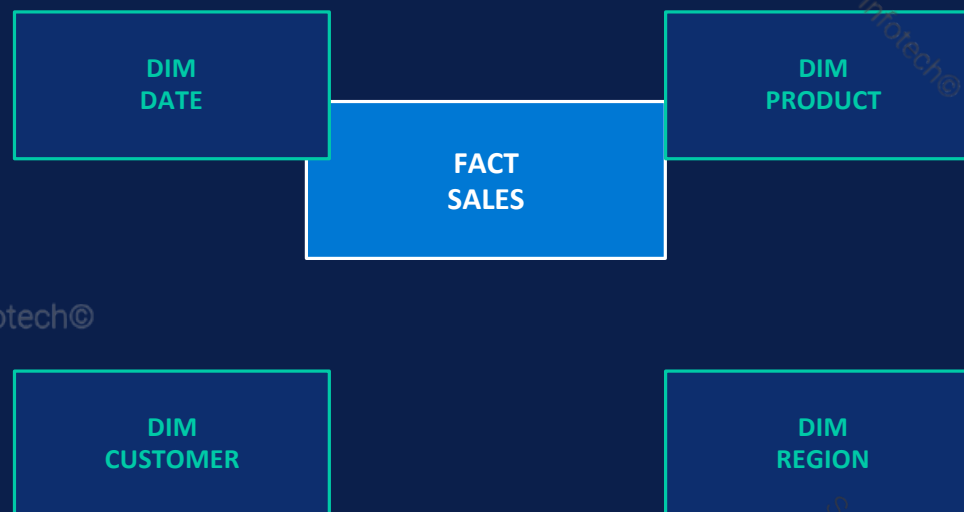
Snowflake Schema

Normalized extension of star schema where dimension tables are broken into sub-dimensions. Reduces redundancy but increases join complexity.

SCD —Slowly Changing Dimensions

Handling changes to dimension data over time. SCD Type 1 (overwrite), Type 2 (versioned history with effective dates), Type 3 (limited history column).

STAR SCHEMA —VISUAL



Fact ↔ Dimensions = analytical query power

SCD Type 2 tracks changes over time with IsActive, StartDate & EndDate columns.



REAL-TIME INDUSTRY PROJECTS

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PROJECT 01

ADF + SQL End-to-End Pipeline

- ✓ Ingest sales data from on-prem SQL Server
- ✓ Transform using ADF Copy Activity + Mapping
- ✓ Load to Azure Data Lake Gen2 (Parquet)
- ✓ Implement Delta Load strategy (incremental)
- ✓ Load to Synapse SQL Pool for reporting
- ✓ Email alert via Logic Apps on failure
- ✓ Parameterized pipelines for reusability
- ✓ Git-based version control with Azure DevOps

Stack: SQL Server · ADF · ADLS · Synapse · Logic Apps

PROJECT 02

Microsoft Fabric + AI Integration

- ✓ Ingest multi-source data into OneLake
- ✓ Build Bronze→Silver→Gold Lakehouse
- ✓ Dataflows Gen2 for no-code transformation
- ✓ Fabric Warehouse SQL for analytics queries
- ✓ ChatGPT-assisted PySpark transformation
- ✓ AI Copilot for Power BI report generation
- ✓ Real-time analytics dashboard in Fabric
- ✓ GitHub portfolio-ready documentation

Stack: Microsoft Fabric · AI Copilot · Power BI · PySpark



WHAT SETS VALAXY APART?

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Compact Batch Training

Small cohorts for personalized attention and peer learning.



Lifetime Recordings

Access class recordings forever — revisit any topic anytime.



Real-Time Projects

Industry scenario-based projects built for your portfolio.



AI-Enabled Learning

Use ChatGPT & Copilot inside the course — not theory, real use.



ATS Resume Building

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Professional resume crafted and reviewed for tech job applications.



Mock Interviews

2–3 rounds of mock interviews with detailed feedback.



100+ Interview Q&A

From 50+ companies. Covers SQL, Azure, Fabric, PySpark & more.



Certification Support

AZ-900, DP-900, DP-700 — guidance throughout your prep.



Placement Assistance

5–10 interview referrals. LinkedIn & GitHub optimization included.



CANDIDATE DELIVERABLES

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Weekly Assignments

Applied exercises after every module



Weekly Tests

Concept validation and gap identification



2 Real-Time Projects

Portfolio-ready GitHub projects



ATS Resume

Professional resume reviewed by trainer



LinkedIn Optimization

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Profile set up for recruiter visibility



GitHub Portfolio

Documented projects for interview credibility



100+ Interview Q&A

Company-specific question bank (50+ firms)



Mock Interviews (2–3)

Simulated technical interview rounds



Placement (5–10 referrals)

Active job assistance & referral support



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8-WEEK PROGRAM TIMELINE

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Wk 1-2

Foundation

SQL Server, Python
Basics, Azure Intro

Wk 3-4

Cloud Core

ADF Pipelines, ADLS,
Databricks + Delta

Wk 5-6

Advanced Platform

Synapse, Logic Apps,
Microsoft Fabric

Wk 7

AI + Projects

AI Integration, Project 1
& 2 Build

Wk 8

Placement Prep

Resume, LinkedIn,
GitHub, Mock Interviews

Duration: 2 Months | Weekend + Weekday Batches | Live + Recorded Sessions



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Azure Data Engineering + Microsoft Fabric + AI

Job-Ready Program • 2 Months • Live Batches



ENROLL NOW — Limited Seats Per Batch

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