DATAFIED
ACADEMY

Simplify Your Journey as You Start Your Tech Career

Comprehensive Course Catalogue | Data Analytics • Data Science • Data Engineering • AI Automation

OUR PROGRAMMES

- **Data Analytics – Beginners**
- **Data Analytics – Advanced**
- **Data Science**
- **Data Engineering**
- **AI Automation**

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About Datafied Academy

Datafied Academy is the training arm of Datafied Technologies Limited, a data science education and consulting company headquartered in Nigeria and dedicated to empowering Africa's next generation of data professionals. Our philosophy is simple: break down the complexity of data and technology into the simplest, most intuitive forms, concepts accessible even to someone hearing them for the very first time.

Since our founding, we have trained hundreds of students across Nigeria in data analytics, equipping them with industry-ready skills and the confidence to pursue meaningful careers in data. Our instructors are industry practitioners and seasoned data professionals who bring real-world experience into every classroom.

Our Mission

To democratise data education across Africa by making cutting-edge tech skills accessible, affordable, and practically applicable.

Our Vision

To become Africa's foremost hub for data science education, nurturing a thriving community of data-driven innovators and problem-solvers.

Why Choose Datafied Academy?

Industry-Led Instruction

Our trainers are active data professionals, not just theorists. Every concept taught maps to real-world application.

Flexible Learning Modes

Choose between online or physical classroom delivery, with both weekday and weekend scheduling options.

Hands-On Projects

Each course concludes with a guided capstone project that builds your portfolio and demonstrates job-ready skills.

Structured Career Pathways

Courses are sequenced from beginner to advanced, enabling a clear, progressive learning journey.

Affordable Payment Plans

Flexible 60/40 installment plans or full-payment options ensure that cost is never a barrier to quality education.

Community & Mentorship

Gain access to a growing community of data professionals, alumni, and mentors on WhatsApp, LinkedIn, and YouTube.

Course Catalogue at a Glance

The table below summarises all five programmes currently offered at Datafied Academy:

Course	Level	Duration	Key Tools
Data Analytics – Beginners	Beginner	3 Months + 1 Wk Project	Excel, Google Sheets, SQL, Power BI
Data Analytics – Advanced	Advanced	6 Months + 2 Wk Project	Python, BigQuery, Power BI, SQL
Data Science	Advanced	6 Months + 2 Wk Project	Python, Scikit-learn, TensorFlow, R
Data Engineering	Advanced	6 Months + 2 Wk Project	Apache Spark, Kafka, Airflow, dbt
AI Automation	Advanced	4 Months + 1 Wk Project	n8n, Make, GPT APIs, LangChain

01 | Data Analytics – Beginners BEGINNER LEVEL

Duration: 3 Months + 1 Week Guided Project | **Fee: Online: ₦150,000 | Physical: ₦250,000**

The Beginners Data Analytics programme provides a solid, structured foundation in data analytics. Participants learn to collect, clean, analyse, and visualise data using industry-standard tools, and emerge ready to make data-driven decisions in any organisational context. No prior technical experience is required.

What You Will Learn

- Use Microsoft Excel, Google Sheets, and SQL to gather and prepare data for analysis
- Apply SQL queries to retrieve, filter, aggregate, and join data from relational databases
- Build interactive dashboards and reports using Power BI and Tableau
- Apply basic statistical techniques to validate findings and support decisions
- Communicate data insights clearly through effective data storytelling

Tools & Technologies

✓ **Microsoft Excel**	✓ **Google Sheets**	✓ **SQL (MySQL / PostgreSQL)**
✓ **Power BI**	✓ **Tableau**	✓ **Google Looker Studio**
✓ **Python (intro)**	✓ **VS Code**	✓ **Google Colaboratory**

Course Modules

Module 1	Introduction to Data Analytics: concepts, data types, sources, and the analytics process
Module 2	Spreadsheet Analysis: Google Sheets & Excel for data cleaning, functions, and pivot tables
Module 3	SQL for Data Analytics: SELECT, WHERE, GROUP BY, JOINs, and subqueries
Module 4	Data Visualisation: charts, dashboards, heatmaps, and scatter plots in Power BI / Tableau
Module 5	Basic Statistics: descriptive stats, probability distributions, hypothesis testing, regression
Module 6	Data Storytelling: narrative structure, visual communication, and stakeholder presentation
Guided Project	End-to-end analytics project using a real-world dataset

Career Outcomes

Data Analyst	Collect, process, and visualise data to support business decision-making.
Business Analyst	Bridge business needs and data insights to recommend operational improvements.
Marketing Analyst	Analyse campaign performance and customer data to optimise marketing strategy.
Financial Analyst	Assess financial performance using data models and predictive tools.

Enrolment Requirements

- Demonstrable interest in pursuing a career in data analytics
- A reliable laptop (Windows 10 / macOS Catalina or later, Core i5, 8 GB RAM, 256 GB SSD)
- Stable internet connection for online class participation
- Commitment to attending scheduled sessions (weekdays or weekends)

Installment Plan (60% / 40%)	Full Payment (100%)
Pay 60% before commencement. Settle the remaining 40% one month into training.	Pay the complete training fee before course commencement for a seamless start.

02 | Data Analytics – Advanced ADVANCED LEVEL

Duration: 6 Months + 2 Weeks Guided Project | **Fee: Online: ₦350,000 | Physical: ₦450,000**

This advanced programme is designed for participants who have completed the Beginners level (or hold equivalent experience) and want to deepen their command of modern data analytics. Topics span cloud-scale querying in Google BigQuery, Python-based data manipulation, advanced Power BI modelling, and rigorous statistical inference.

What You Will Learn

- Master Google Cloud BigQuery for querying and managing large-scale datasets
- Write complex SQL: CTEs, window functions, optimised subqueries, and indexing strategies
- Manipulate and analyse data programmatically using Python (Pandas, NumPy)
- Create publication-quality data visualisations with Matplotlib and Seaborn
- Build advanced Power BI data models with DAX measures, calculated columns, and relationships
- Apply advanced statistical techniques including regression modelling and time series analysis

Tools & Technologies

✓ **Python (Pandas, NumPy)**	✓ **Google Cloud BigQuery**	✓ **Advanced SQL**
✓ **Power BI (Advanced DAX)**	✓ **Matplotlib / Seaborn**	✓ **Microsoft Excel (Advanced)**
✓ **Anaconda / Jupyter**	✓ **Google Colab**	✓ **Git & GitHub**

Course Modules

Module 1	Advanced Excel: array formulas, Power Query, pivot optimisation, and advanced lookup functions
Module 2	Advanced Power BI: DAX, complex data modelling, custom visuals, and dashboard optimisation
Module 3	Advanced SQL: CTEs, window functions, query optimisation, and database administration
Module 4	Python for Analytics: Pandas, NumPy, data wrangling, and exploratory data analysis
Module 5	Data Visualisation with Python: Matplotlib, Seaborn, and Plotly interactive charts
Module 6	Advanced Statistics: inference, hypothesis testing, multiple regression, and time series
Guided Project	End-to-end analytics pipeline using real cloud and Python-based tools

Career Outcomes

Senior Data Analyst	Lead data projects, mentor junior analysts, and own analytical frameworks.
Business Intelligence Analyst	Design BI dashboards, track KPIs, and translate metrics into strategic actions.
Data Scientist	Apply statistical modelling and ML techniques to solve complex business problems.
Data Consultant	Advise organisations on data strategy, tool selection, and analytical maturity.

Enrolment Requirements

- Completion of Data Analytics – Beginners programme or equivalent experience
- Proficiency in basic SQL, Excel, and Power BI
- A reliable laptop with Anaconda or Python environment pre-installed
- Stable broadband connection for online participation

Installment Plan (60% / 40%)	Full Payment (100%)
Pay 60% before commencement. Settle the remaining 40% one month into training.	Pay the complete training fee before course commencement for a seamless start.

03 | Data Science ADVANCED LEVEL

Duration: 6 Months + 2 Weeks Guided Project | **Fee: Online: ₦450,000 | Physical: ₦550,000**

The Data Science programme takes participants beyond analysis into the domain of prediction, modelling, and intelligent systems. Grounded in statistical theory and machine learning, this course equips learners to build predictive models, perform natural language processing, and deploy ML solutions that generate real business value.

What You Will Learn

- Master Python for scientific computing, data manipulation, and model development
- Apply core machine learning algorithms: regression, classification, clustering, and ensemble methods
- Build, evaluate, and tune predictive models using Scikit-learn and XGBoost
- Perform exploratory data analysis (EDA), feature engineering, and model interpretability
- Develop introductory deep learning models using TensorFlow and Keras
- Work with Natural Language Processing (NLP) pipelines for text data
- Communicate model results and deploy simple ML applications

Tools & Technologies

✓ **Python (Scikit-learn)**	✓ **TensorFlow / Keras**	✓ **XGBoost / LightGBM**
✓ **Pandas / NumPy**	✓ **Matplotlib / Seaborn**	✓ **Plotly**
✓ **NLTK / SpaCy (NLP)**	✓ **Jupyter Notebook**	✓ **Google Colab**
✓ **Git & GitHub**	✓ **Streamlit (deployment)**	✓ **R (statistical computing)**

Course Modules

Module 1	Python for Data Science: OOP, NumPy, Pandas, and scientific computing workflows
Module 2	Probability & Statistical Learning: Bayesian inference, sampling theory, and distributions
Module 3	Supervised Learning: linear & logistic regression, decision trees, SVMs, and ensembles
Module 4	Unsupervised Learning: K-means, DBSCAN, PCA, and dimensionality reduction
Module 5	Deep Learning Fundamentals: neural networks, CNNs, RNNs, and transfer learning
Module 6	NLP & Text Analytics: tokenisation, sentiment analysis, and topic modelling
Module 7	Model Deployment: Flask / Streamlit APIs and cloud deployment basics
Guided Project	End-to-end ML pipeline: problem definition, data prep, modelling, and deployment

Career Outcomes

Data Scientist	Develop and deploy machine learning models to drive business intelligence.
ML Engineer	Build, optimise, and operationalise ML systems at scale.
Research Analyst	Apply statistical and ML methods to academic or industry research.
AI Product Analyst	Bridge business needs and AI capabilities in product and strategy roles.

Enrolment Requirements

- Completion of Data Analytics, Advanced or equivalent Python and statistics foundation
- Familiarity with Python programming (loops, functions, libraries)
- A laptop with at minimum 8 GB RAM; GPU support recommended for deep learning modules

Installment Plan (60% / 40%)	Full Payment (100%)
Pay 60% before commencement. Settle the remaining 40% one month into training.	Pay the complete training fee before course commencement for a seamless start.

04 | Data Engineering ADVANCED LEVEL

Duration: 6 Months + 2 Weeks Guided Project | **Fee: Online: ₦450,000 | Physical: ₦550,000**

Data Engineering focuses on the infrastructure layer that powers all data work. Participants learn to design and implement robust data pipelines, architect scalable storage systems, and orchestrate complex workflows, enabling organisations to move raw data reliably from source to insight.

What You Will Learn

- Design and implement ETL / ELT pipelines using industry-standard tools
- Model and transform raw data using dbt (data build tool) and SQL
- Ingest, process, and manage streaming data with Apache Kafka
- Build distributed data processing workflows using Apache Spark
- Orchestrate pipeline schedules and dependencies with Apache Airflow
- Architect cloud data warehouses on Google BigQuery, AWS Redshift, or Snowflake
- Implement data quality checks, monitoring, and governance practices

Tools & Technologies

✓ **Python (PySpark, SQLAlchemy)**	✓ **Apache Spark**	✓ **Apache Kafka**
✓ **Apache Airflow**	✓ **dbt (data build tool)**	✓ **SQL (Advanced)**
✓ **Google BigQuery**	✓ **AWS (S3, Glue, Redshift)**	✓ **Snowflake**
✓ **Docker**	✓ **Git & GitHub**	✓ **Linux / Bash scripting**

Course Modules

Module 1	Data Engineering Foundations: data architecture patterns, ETL vs ELT, and the modern data stack
Module 2	Python for Data Engineering: file I/O, APIs, automation scripts, and database connectors
Module 3	SQL & Data Modelling: dimensional modelling, normalisation, and schema design
Module 4	Batch Processing with Apache Spark: DataFrames, transformations, and optimisation
Module 5	Stream Processing with Kafka: producers, consumers, topics, and real-time pipelines
Module 6	Workflow Orchestration with Airflow: DAGs, scheduling, and pipeline monitoring
Module 7	Cloud Data Warehousing: BigQuery / Snowflake setup, partitioning, and cost control
Module 8	Data Quality & Governance: testing with dbt, Great Expectations, and data cataloguing
Guided Project	Production-grade data pipeline from ingestion to analytics-ready warehouse

Career Outcomes

Data Engineer	Design, build, and maintain data pipelines and warehouse infrastructure.
Analytics Engineer	Transform raw data into clean, modelled datasets using dbt and SQL.
Cloud Data Architect	Architect enterprise data platforms on cloud providers.
MLOps Engineer	Operationalise ML model training and serving pipelines at scale.

Enrolment Requirements

- Strong SQL foundation (joins, aggregations, query optimisation)
- Python programming experience (Pandas, file handling, APIs)
- Basic understanding of cloud platforms (Google Cloud, AWS, or Azure)
- Laptop with Docker installed; minimum 16 GB RAM recommended

Installment Plan (60% / 40%)	Full Payment (100%)
Pay 60% before commencement. Settle the remaining 40% one month into training.	Pay the complete training fee before course commencement for a seamless start.

05 | AI Automation NEW – ADVANCED LEVEL

Duration: 4 Months + 1 Week Guided Project | **Fee: Online: ₦200,000 | Physical: ₦350,000**

AI Automation is the newest and most forward-looking programme in the Datafied Academy portfolio. It equips professionals and business owners with the skills to design, build, and deploy AI-powered workflows that eliminate repetitive tasks, accelerate decision-making, and create intelligent, self-operating systems. No deep ML background is required, just a willingness to build the future.

What You Will Learn

- Design no-code and low-code automation workflows using n8n, Make (Integromat), and Zapier
- Integrate Large Language Models (LLMs) such as GPT-4 and Claude into production workflows
- Build AI agents and autonomous assistants using LangChain and AutoGen frameworks
- Automate data processing, reporting, and notification pipelines across business tools
- Connect APIs, databases, and cloud services within agentic automation architectures
- Implement prompt engineering best practices for reliable AI output generation
- Deploy AI solutions on cloud infrastructure with basic MLOps monitoring

Tools & Technologies

✓ **n8n (workflow automation)**	✓ **Make (Integromat)**	✓ **Zapier**
✓ **OpenAI GPT-4 API**	✓ **Anthropic Claude API**	✓ **LangChain**
✓ **AutoGen / CrewAI**	✓ **Python (requests, FastAPI)**	✓ **Pinecone / ChromaDB (vector DB)**
✓ **Google Workspace APIs**	✓ **Notion / Airtable APIs**	✓ **Docker (containerised agents)**

Course Modules

Module 1	Introduction to AI Automation: history, current landscape, LLM capabilities, and use-case mapping
Module 2	No-Code / Low-Code Automation: building workflows in n8n, Make, and Zapier
Module 3	Prompt Engineering: structured prompting, chain-of-thought, few-shot examples, and templates
Module 4	LLM API Integration: OpenAI and Claude APIs: authentication, streaming, and error handling
Module 5	AI Agents & Orchestration: LangChain, AutoGen, tool calling, and multi-agent systems
Module 6	Vector Databases & RAG: embeddings, semantic search, and retrieval-augmented generation
Module 7	Business Process Automation: automating reporting, emails, CRM updates, and notifications
Guided Project	Build a fully functional AI agent or automated business workflow for a real use-case

Career Outcomes

AI Automation Engineer	Design and deploy AI-powered workflows and autonomous agents for business.
Prompt Engineer	Craft optimised prompts and AI interaction patterns for production systems.
AI Consultant	Advise organisations on AI adoption strategy and automation ROI.
Product Manager (AI)	Lead AI product development, from ideation through deployment and iteration.

Enrolment Requirements

- Basic understanding of APIs and web technologies (no deep coding experience required)
- Familiarity with at least one cloud or SaaS platform (Google Workspace, Notion, Airtable, etc.)
- A laptop with stable internet; no specialised hardware required
- Curiosity, creativity, and a genuine interest in applying AI to solve real problems

Installment Plan (60% / 40%)	Full Payment (100%)
Pay 60% before commencement. Settle the remaining 40% one month into training.	Pay the complete training fee before course commencement for a seamless start.

Training Delivery & Schedule

Online Classes

Weekday Sessions:

Morning: 10:00 AM – 12:00 PM

Evening: 3:00 PM – 5:00 PM

Late Evening: 7:00 PM – 9:00 PM

Weekend Sessions:

Evening: 4:00 PM – 6:00 PM

Physical Classes

Available for select courses. Contact us for location details and intake dates.

Learning Resources:

- Pre-recorded video lectures for self-paced review
- Live weekend sessions with industry experts
- Guided capstone projects
- Certificate of completion

Minimum System Requirements

Participants are expected to have access to a personal computer meeting the following specifications:

Operating System	Windows 10 (64-bit) or macOS Catalina 10.15 or later
Processor	Intel Core i5 (or equivalent AMD Ryzen 5)
RAM	8 GB minimum (16 GB recommended for Data Engineering and Data Science)
Storage	256 GB SSD (512 GB or higher recommended for Data Engineering)
Internet Connection	Broadband / high-speed connection (stable 10 Mbps or above)
Software (varies)	Microsoft Excel, Python / Anaconda, Power BI Desktop, Docker (Data Engineering)

Payment Plans

We believe financial constraints should never stand between a motivated learner and quality education. All Datafied Academy programmes offer two flexible payment structures:

Installment Plan (60% / 40%)

Pay 60% before commencement. Settle the remaining 40% one month into training.

Full Payment (100%)

Pay the complete training fee before course commencement for a seamless start.

Note on Fees

Course fees are published on our website and are reviewed periodically. All prices displayed are in Nigerian Naira (NGN). Please visit www.datafiedtech.com or contact us directly for the most current pricing and intake dates. Fees for Data Science, Data Engineering, and AI Automation will be confirmed upon direct enquiry.

How to Enrol

Step 1: Research	Browse the course pages on www.datafiedtech.com to identify the programme that best fits your goals and current skill level.
Step 2: Apply	Complete the online application form at www.datafiedtech.com/application-form.
Step 3: Consultation	Our team will review your application and contact you to confirm eligibility and course details.
Step 4: Payment	Choose your preferred payment plan (full or instalment) and complete payment to secure your place.
Step 5: Onboarding	Receive your onboarding materials, schedule, and access to the learning platform before Day 1.

Contact Us

Get In Touch

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