DATAXSCHOOL
START YOUR CAREER

DATAXSCHOOL LEARNING CENTRE

START YOUR CAREER

PROGRAM 04 · FULL STACK + AGENTIC AI

Advanced Full Stack Data Science with Agentic AI

Become a 2030-ready data scientist. Master Python, machine learning, deep learning, MLOps and full-stack deployment — then build autonomous Agentic AI systems that reason, plan and act.

6 MONTHS · 24 WEEKS | AGENTIC AI + LLMS | LIVE INSTRUCTOR-LED | PLACEMENT SUPPORT

2000+	95%	₹6L–40L	4
LEARNERS TRAINED	PLACEMENT RATIO	SALARY RANGE	CAMPUSES

ISO 9001:2015 CERTIFIED · REGD. GOVT. OF INDIA · ADMISSIONS OPEN 2026

ABOUT DATAXSCHOOL

Where Ambition Meets Industry

DataXSchool Learning Centre is a career-focused institution specialising in data, AI and emerging technologies. Our purpose is to close the gap between classroom learning and the reality of a working tech career.

Every programme is built around hands-on labs, real production-grade systems and 1:1 mentorship from senior engineers actively working in the industry. Learners don't just study concepts — they build, break, debug and ship. That is why our graduates walk into interviews able to talk about systems they have actually run, and why hiring partners keep coming back to our campuses.

Our Mission

Equip students with practical skills and real-world experience so they are fully prepared and positioned for successful careers in the software and AI industry.

Our Vision

To be a leading institution that transforms aspiring learners into successful IT professionals, bridging education and employment through innovative, hands-on training.

Our Values

Excellence, integrity and impact. We foster an inclusive community where learners are pushed to build, ship and solve real problems with confidence.

Features of DataXSchool

- Dedicated Placement Support
- Live Practical Training
- Interview Prep & Mock Interviews
- Small Batch Sizes
- Free Communication Skills Lab
- Weekday & Weekend Batches
- Industry Expert Trainers
- Real-Time AI-Era Projects
- Resume & LinkedIn Profile Building
- 1:1 Career Mentorship
- Free Demo & Trial Classes
- ISO 9001:2015 Certified Institution

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PROGRAM OVERVIEW

The Scientists Who Ship Intelligence

A modern data scientist does far more than train models in a notebook. They own the full stack — data, models, deployment and the product — and now design Agentic AI systems that reason, plan and act autonomously on real business problems.

$500B	36% CAGR	₹6L–40L	HIGH
AI MARKET BY 2030	GLOBAL GROWTH	SALARY RANGE	HIRING DEMAND

What You'll Be Able To Do

- Program in Python and query data with advanced SQL
- Build and tune ML and deep learning models
- Work with NLP, computer vision and transformers
- Deploy models with MLOps, Docker and cloud pipelines
- Ship full-stack data apps with FastAPI and Streamlit
- Build autonomous Agentic AI systems with LLMs and RAG

Market Demand Signals



Who This Program Is For

- Freshers & final-year students entering tech
- Working professionals switching into data science
- Software engineers moving into ML and AI
- Analysts levelling up to full-stack data science
- Career-break professionals re-entering the industry
- Researchers who want production ML skills
- Product and domain experts going AI-native
- Anyone targeting a 2030-ready AI career

Career Roles You Can Pursue

- Data Scientist
- Machine Learning Engineer
- AI Engineer
- MLOps Engineer
- Full Stack Data Scientist
- NLP Engineer
- Computer Vision Engineer
- LLM / Agentic AI Engineer
- Applied Scientist
- AI Product Engineer

24	15	100%	AI
WEEKS · 6 MONTHS	MODULES	LIVE INSTRUCTOR-LED	+ AGENTIC SYSTEMS

YOUR ROADMAP

01 Six Months, One Job Offer

What happens month by month — what you learn, and what you have built by the end of it. Every month closes with something you can show a recruiter.

Month 01 — Weeks 1–4

Python, SQL & Foundations

Python · Advanced SQL · NumPy · Pandas · Statistics · Git

YOU'LL BUILD — A cleaned dataset, an EDA notebook and a SQL analytics layer.

Month 02 — Weeks 5–8

Machine Learning

Scikit-learn · Regression · Classification · Ensembles · Feature Eng · Tuning

YOU'LL BUILD — A tuned, validated ML model with a documented evaluation.

Month 03 — Weeks 9–12

Deep Learning & NLP

TensorFlow · PyTorch · CNNs · RNNs · Transformers · NLP

YOU'LL BUILD — A deep-learning model for vision or text, trained end to end.

Month 04 — Weeks 13–16

Generative & Agentic AI

LLMs · Prompt Eng · RAG · LangChain · Agents · Vector DBs

YOU'LL BUILD — An autonomous AI agent that reasons, retrieves and acts.

Month 05 — Weeks 17–20

MLOps & Full-Stack Deployment

Docker · FastAPI · Streamlit · CI/CD · MLflow · AWS

YOU'LL BUILD — A deployed, monitored full-stack data app with a live API.

Month 06 — Weeks 21–24

Capstone & Career Preparation

Capstone · Portfolio · Resume · Mock Interviews · System Design · Placement

YOU'LL BUILD — A production capstone, a final portfolio and mock interview rounds.

Finish

Congratulations — You're Placed

A full-stack data scientist with Agentic AI skills, interview-ready with a production portfolio and in active hiring pipelines.

15 Modules Done · AI + Agentic Systems · 30+ Tools · 95% Placement Ratio

02 Python, SQL & the Machine Learning Core

MONTH 01 — Program, Query and Explore

M1 Python for Data Science

WEEKS 1–2

- Python fundamentals
- Data types
- Functions
- OOP
- File handling
- NumPy
- Pandas
- Matplotlib
- Seaborn
- Jupyter
- Virtual environments
- Git & GitHub

LAB A reusable data-cleaning and visualisation toolkit in Python.

M2 Advanced SQL & Statistics

WEEK 3

- Joins
- Window functions
- CTEs
- Aggregations
- Query optimisation
- Descriptive statistics
- Probability
- Hypothesis testing
- Correlation

LAB A SQL analytics layer plus a statistically tested business finding.

MONTH 02 — Learn the Models That Predict

M3 Machine Learning Foundations

WEEKS 4–5

- Supervised learning
- Linear & logistic regression
- Decision trees
- Random forests
- Gradient boosting
- XGBoost
- Model evaluation
- Cross-validation

LAB A tuned classification model with a documented evaluation report.

M4 Feature Engineering & Unsupervised ML

WEEKS 6–8

- Feature engineering
- Scaling & encoding
- Dimensionality reduction
- PCA
- K-Means
- Clustering
- Anomaly detection
- Pipelines

LAB An end-to-end ML pipeline from raw data to a scored prediction.

03 Deep Learning, NLP & Computer Vision

MONTH 03 Teach Machines to See and Read

M5 Deep Learning Foundations

WEEKS 9–10

- Neural networks
- Backpropagation
- Activation functions
- TensorFlow
- Keras
- PyTorch
- Optimisers
- Regularisation
- Model training

LAB A neural network trained, tuned and evaluated on a real dataset.

M6 Computer Vision

WEEK 11

- CNNs
- Image classification
- Transfer learning
- Object detection
- OpenCV
- Image augmentation
- Pretrained models

LAB An image-classification model built with transfer learning.

M7 Natural Language Processing

WEEK 12

- Text preprocessing
- Embeddings
- RNNs & LSTMs
- Attention
- Transformers
- BERT
- Sentiment analysis
- Named entity recognition

LAB A transformer-based NLP model for text classification.

04 Generative AI & Agentic AI

MONTH 04 Build Systems That Reason and Act

M8 Large Language Models

WEEKS 13–14

- LLM fundamentals
- Prompt engineering
- Fine-tuning
- Embeddings
- Vector databases
- RAG
- LangChain
- LlamaIndex
- Hugging Face

LAB A RAG application that answers questions over your own documents.

M9 Agentic AI Systems

WEEKS 15–16

- AI agents
- Agent architectures
- Tool use & function calling
- Planning & reasoning
- Multi-agent systems
- LangGraph
- AutoGen
- Memory
- Autonomous workflows

LAB An autonomous agent that plans, retrieves, uses tools and acts.

05 MLOps & Full-Stack Deployment

MONTH 05 Ship It to Production

M10 Full-Stack Data Apps

WEEKS 17–18

- FastAPI
- Frontend basics
- App deployment
- Streamlit
- Model serving
- REST APIs
- Authentication

LAB A full-stack data app with a live model-serving API.

M11 MLOps & Pipelines

WEEK 19

- Docker
- CI/CD
- Model monitoring
- MLflow
- Experiment tracking
- Model registry
- Pipeline orchestration

LAB A containerised ML pipeline with tracking and automated deployment.

M12 Cloud for Data Science

WEEK 20

- AWS fundamentals
- EC2
- Scalable inference
- S3
- Lambda
- SageMaker
- Cloud deployment

LAB A model deployed and served at scale on AWS.

06 Capstone, Projects & Career Preparation

MONTH 06 Ship a Portfolio, Then Get Hired

M13 Real-Time Projects

WEEKS 21–22

- Predictive analytics project
- Computer vision project
- NLP project
- Generative AI project
- Agentic AI project
- Recommendation system

LAB Choose, build and ship two mentor-reviewed portfolio projects.

M14 Capstone Project

WEEK 23

- End-to-end data science solution
- Full-stack deployment
- Agentic AI integration
- Documentation
- Presentation

LAB A production-ready capstone: modelled, deployed, agent-powered.

M15 Career Preparation

WEEK 24

- Resume building
- LinkedIn optimisation
- GitHub portfolio
- DS interview questions
- ML system design
- HR preparation
- Mock interviews
- Communication skills

01	02	03	04
END-TO-END ML SOLUTION	FULL-STACK DEPLOYMENT	AGENTIC AI INTEGRATION	LIVE, MONITORED IN CLOUD

CAPSTONE PROJECT — BUILT, DEPLOYED, AGENT-POWERED, DOCUMENTED AND PRESENTED

COURSE MATERIAL

07

The Complete Tool Stack

Grouped by the job each tool does in a real data science workflow — from the Python core to Agentic AI running in production.

01	**Programming & Data** PYTHON FOUNDATION	Python · NumPy · Pandas · SQL
02	**Machine Learning** PREDICTIVE MODELLING	Scikit-learn · XGBoost · Statsmodels
03	**Deep Learning** NEURAL NETWORKS	TensorFlow · Keras · PyTorch
04	**Computer Vision** IMAGE INTELLIGENCE	OpenCV · CNNs · Transfer Learning
05	**NLP & Transformers** LANGUAGE MODELS	Hugging Face · BERT · Transformers
06	**Generative & Agentic AI** AUTONOMOUS AI	LLMs · LangChain · LangGraph · RAG · Vector DBs
07	**Full-Stack Apps** SERVING & UI	FastAPI · Streamlit · REST APIs
08	**MLOps** DEPLOY & MONITOR	Docker · MLflow · CI/CD
09	**Cloud** SCALABLE INFRASTRUCTURE	AWS · SageMaker · S3 · Lambda
10	**Version & Collaborate** WAYS OF WORKING	Git · GitHub · Jira

30+	10	100%	2030
TOOLS & TECHNOLOGIES	WORKFLOW STAGES	HANDS-ON LABS	READY STANDARD

MEET YOUR MENTOR

Trained By Industry, Not Textbooks

Your mentor is not a full-time educator. He is a practising data architect who designs and operates enterprise data and AI platforms every day — and brings that current tooling, judgement and network into every session.



FOUNDER & CHIEF MENTOR

Srikanta Patra

PRINCIPAL DATA ARCHITECT · FOUNDER, DATAXSCHOOL

Srikanta Patra is a seasoned Principal Data Architect with 15+ years of industry experience across Data Analytics, Data Science, Database Engineering and Cloud Data Platforms. Over his career he has held key technical leadership roles at Sequoia, Chingari, Junglee Games, BCD Travel, Atlas Systems, Synchronoss Technologies and Wipro. As Founder & Chief Mentor of DataXSchool he has mentored thousands of students and professionals, combining real-world production experience with a practical, industry-first teaching approach.

EXPERIENCE	EXPERTISE	DOMAINS
15+ Years	Data Science & AI Platforms	Gaming · Travel · Telecom · Healthcare



15+	1:1	100%	∞
YEARS INDUSTRY EXPERIENCE	PERSONAL MENTORING	LIVE SESSIONS, NO RECORDINGS	DOUBT CLEARING & CODE REVIEW

INSIDE OUR CAMPUSES

08 Built For Real Practice

Modern, fully-equipped campuses across India — dedicated lab seats, instructor-led classrooms and collaborative spaces. Every learner gets a machine, a mentor and the room to build. Visit any campus and sit in on a live session before you decide.

Bengaluru

Brigade IRV Centre, 9th Floor, Nallurhalli, Whitefield 560066

FLAGSHIP CAMPUS







INSTRUCTOR-LED SESSIONS & COLLABORATIVE WORKSPACES — LIVE BATCHES

Bhubaneswar

Satyakali Residency, N-6/452, Nayapalli, Jayadev Vihar 751015

ODISHA





CLASSROOM & PRACTICE LAB — DEDICATED SEATS, SMALL BATCHES

Berhampur

1st Floor, Jail Road, Lanjipali, Odisha 760008

ODISHA





RECEPTION & LEARNING LAB — 1:1 MENTORSHIP

CAREER SERVICES

09

From Day One to Day You're Hired

Our placement engine is built into the curriculum from week one. You don't graduate and then job-hunt — you graduate already in active interview pipelines, with a portfolio of shipped systems behind you.

95%	50+	10+	Free
PLACEMENT RATIO	CAREER WEBINARS	INDUSTRY MENTORS	MOCK INTERVIEWS

1:1 Career Mentoring

Every learner is matched with a senior industry mentor for ongoing guidance — career strategy, technical doubts and salary negotiation.

Assured Interviews

On graduating into our Placement Pool you get guaranteed interview opportunities with top MNCs and high-growth startups.

Resume & LinkedIn

Built and reviewed by industry hiring managers. We rebuild your resume, optimise LinkedIn and clean up your Naukri presence.

Mock Interview Prep

Repeated mock rounds simulating real company loops — ML, system design, coding and behavioural — with detailed feedback.

Hiring Job Fairs

Quarterly campus-style fairs bring recruiters directly to our learners across all four campuses.

Hackathons & Projects

Team hackathons and real client briefs build portfolio depth — the kind of work that actually moves the needle in interviews.

Our Student Placement Companies

Organisations where DataXSchool learners have been placed across programs and campuses.

CLOVER INFOTECH · wipro TECHNOLOGY · ahana SYSTEMS · accenture

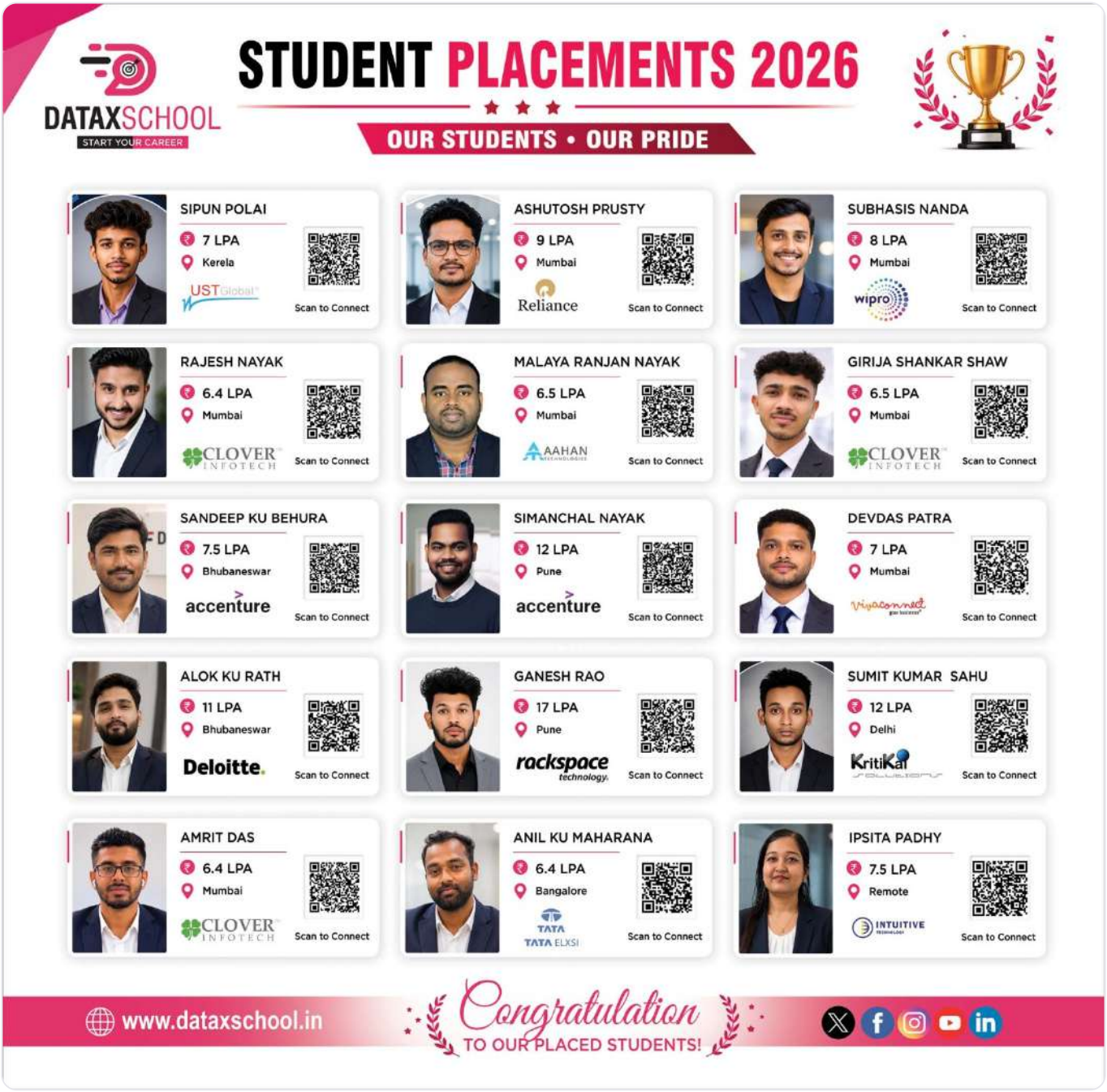
INTUTATIVE TECHNOLOGY · HELLO AI · Deloitte. · TATA ELEXI

NTT DATA · Tech Mahindra · TCS TATA CONSULTANCY SERVICES · Infosys

IBM · LTIMindtree · rackspace · MAVINIER

10 Outstanding Placements

2000+	95%	₹6L–40L	Pan-India
LEARNERS	PLACEMENT	SALARY RANGE	REACH



A SELECTION OF RECENT DATAXSCHOOL PLACEMENTS ACROSS PROGRAMS — VERIFIED OFFERS, REAL LEARNERS.

JOIN US

11 How to Apply

Who Can Apply?

- Freshers & final-year students
- Working professionals switching into tech
- Career-break professionals re-entering tech
- Engineering, science, commerce or arts graduates

1 Submit Application

Tell us your background, goals and target role. Takes about five minutes.

2 Screening & Interview

A short aptitude check and a 1:1 conversation with our admissions panel.

3 Admission & Onboarding

Offer letter, enrolment, and immediate access to pre-course material and the portal.

Visit Any of Our Campuses

BENGALURU

Brigade IRV Centre, 9th Floor, Nallurhalli, Whitefield, Bangalore – 560066

+91 90408 93720

BHUBANESWAR

Satyakali Residency, N-6/452, in front of Bank of India, near The Crown Hotel, Nayapalli, Jayadev Vihar, Odisha 751015

+91 78490 07838

BERHAMPUR

1st Floor, Jail Road, Lanjipali, Berhampur, Odisha 760008

+91 84579 54836

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