DATAXSCHOOL
START YOUR CAREER

DATAXSCHOOL LEARNING CENTRE

START YOUR CAREER

PROGRAM 03 · MODERN DBA + AGENTIC AI

Advanced Database Engineering with AI

Become a 2030-ready database engineer. Master PostgreSQL, MongoDB, cloud and DevOps — then put Agentic AI to work running health checks, incident analysis and query optimisation for you.

5 MONTHS · 20 WEEKS | AGENTIC AI FOR DBA | 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 Engineers Who Keep Data Alive

A modern database engineer does far more than run queries. They architect, secure and scale the systems every business runs on, keep them alive around the clock — and now direct Agentic AI to monitor, diagnose and optimise those systems alongside them.

$180B	HIGH	₹6L–40L	2030
MARKET BY 2030	GLOBAL DEMAND	SALARY RANGE	READY SKILLSET

What You'll Be Able To Do

- Architect, administer and tune PostgreSQL and MongoDB
- Run backup, recovery, replication and high availability
- Deploy and monitor databases on AWS cloud
- Build vector search and RAG-ready AI databases
- Automate DBA work with Linux, Python and DevOps
- Put Agentic AI to work on health checks and incident analysis

Market Demand Signals



Who This Program Is For

- Freshers & final-year students entering tech
- Support and system engineers moving into DBA
- Working DBAs upgrading to cloud and AI
- Developers who want deep database expertise
- DevOps engineers adding database reliability skills
- Career-break professionals re-entering the industry
- Data engineers strengthening their database layer
- Anyone targeting a 2030-ready DBA career

Career Roles You Can Pursue

- PostgreSQL DBA
- MongoDB DBA
- Database Engineer
- Cloud Database Engineer
- Database Reliability Engineer
- Database Operations Engineer
- DevOps Database Engineer
- Site Reliability Engineer
- AI Database Engineer
- Database Consultant

20	9	100%	AI
WEEKS · 5 MONTHS	CORE DOMAINS	LIVE INSTRUCTOR-LED	+ AGENTIC WORKFLOWS

YOUR ROADMAP

01 Five 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

Database Engineering Core

PostgreSQL · SQL · Architecture · Performance Tuning · Backup & Recovery · HA

YOU'LL BUILD — A tuned, backed-up PostgreSQL server with replication configured.

Month 02
Weeks 5–8

MongoDB, NoSQL & AI Databases

MongoDB · Atlas · Ops Manager · Cassandra · Vector DBs · RAG

YOU'LL BUILD — A MongoDB Atlas cluster plus a vector database powering similarity search.

Month 03
Weeks 9–12

Linux, Automation & Monitoring

Linux · Shell · Python · Prometheus · Grafana · Alerting

YOU'LL BUILD — A monitored fleet with Grafana dashboards and Python DBA automation.

Month 04
Weeks 13–16

AWS Cloud & DevOps

EC2 · S3 · RDS · IAM · Docker · Terraform · CI/CD

YOU'LL BUILD — A cloud database deployed with Terraform and a CI/CD pipeline.

Month 05
Weeks 17–20

Agentic AI & Production DBA

AI SQL · Agentic DBA · Runbooks · RCA · Disaster Recovery · Capstone

YOU'LL BUILD — AI agents running health checks, RCA and query optimisation in production.

Finish

Congratulations — You're Placed

A modern database engineer, interview-ready with a production portfolio and Agentic AI skills, in active hiring pipelines.

9 Domains Mastered · AI + Agentic Workflows · 25+ Tools · 95% Placement Ratio

YOUR LEARNING PATH

02 Start to 2030-Ready

Fifteen guided steps from database fundamentals to Agentic AI operations — each building on the last, ending with a job-ready modern database engineer.

1 DBA Fundamentals

FOUNDATION

- DBMS concepts
- RDBMS vs NoSQL
- SQL basics
- Data models
- Transactions & ACID

→

2 Database Engineering

POSTGRESQL · SQL

- Architecture & admin
- Performance tuning
- Backup & recovery
- Replication & HA
- Security

→

3 MongoDB (NoSQL)

DOCUMENT DB

- Architecture & admin
- Indexing & aggregation
- Replication & sharding
- Backup & recovery
- Performance & security

→

4 Linux Essentials

OS LAYER

- Linux fundamentals
- File system & permissions
- Process & services
- Networking
- Logs & monitoring

5 MongoDB Ecosystem

ATLAS · OPS MANAGER

- Cloud DB management
- Cluster management
- Monitoring & alerts
- Backup & recovery
- Automation

→

6 AI Databases & Vector

VECTOR TECHNOLOGY

- Apache Cassandra
- Vector databases
- Vector search
- Embeddings & similarity
- RAG · AI data architecture

→

7 Monitoring & Observability

PROMETHEUS · GRAFANA

- Database metrics
- Infrastructure monitoring
- Dashboards
- Alerting
- Capacity monitoring

→

8 Linux & Automation

SCRIPTING

- Shell scripting
- Python for DBA
- DBA automation
- Health checks
- Backup & monitoring scripts

9 AWS Cloud

MANAGED INFRA

- EC2 · compute
- S3 · storage
- IAM · access
- RDS · managed DBs
- CloudWatch · VPC

→

10 DevOps & Enterprise Tools

SHIP & PROVISION

- Git & GitHub
- Docker · Terraform · Ansible
- CI/CD pipelines
- Jira · task mgmt
- Confluence · docs

→

11 AI + Agentic AI for DBA

AI-ASSISTED

- AI-assisted SQL
- AI troubleshooting
- Log analysis
- Query optimisation

→

12 Agentic DBA Automation

AUTONOMOUS

- Database health agents
- Monitoring agents
- Incident & RCA agents
- SQL optimisation agents
- AI runbooks · NL → SQL

13 Real-Time Production DBA

LIVE OPS

- Troubleshooting
- Performance tuning
- High availability
- Disaster recovery
- Monitoring & incidents

→

14 Capstone Projects

BUILD & SHIP

- End-to-end DBA project
- Multi-DB deployment
- Monitoring & alerting
- Automation scripts
- Agentic AI workflows

→

15 Industry Skills

PROFESSIONAL

- Documentation
- Runbooks & SOPs
- ITIL basics
- Change & problem mgmt
- Communication

→

Modern Database Engineer

READY FOR 2030
DB · Cloud · DevOps
Automation · AI · Agentic

03 Database Engineering Core

MONTH 01 Master the Relational Foundation

M1 PostgreSQL & SQL Engineering

WEEKS 1–2

- Database architecture
- Data types
- Indexing
- Functions
- Administration
- Constraints
- Views & materialized views
- Triggers
- SQL programming
- Joins
- Stored procedures
- Query optimisation

LAB A production PostgreSQL server with tuned indexes and optimised queries.

M2 Performance, Backup & Recovery

WEEK 3

- Performance tuning
- Vacuum & analyze
- Point-in-time recovery
- EXPLAIN ANALYZE
- Logical backup
- WAL archiving
- Memory tuning
- Physical backup
- Backup automation

LAB A tuned database with automated backups and a tested recovery drill.

M3 Replication & High Availability

WEEK 4

- Streaming replication
- Failover & switchover
- Security & authentication
- Logical replication
- Cluster management
- Troubleshooting
- Synchronous replication
- Load balancing

LAB A replicated PostgreSQL cluster with automated failover configured.

04 MongoDB, NoSQL & AI Databases

MONTH 02 Document, Distributed and Vector Data

M4 MongoDB Administration

WEEKS 5–6

- MongoDB architecture
- CRUD operations
- Collections & documents
- Indexing
- Aggregation framework
- Replica sets
- Sharding
- Transactions
- Security
- Backup & restore
- Performance tuning
- Monitoring

LAB A sharded MongoDB deployment with replica sets and tuned indexes.

M5 MongoDB Cloud Ecosystem

WEEK 7

- MongoDB Atlas
- Ops Manager
- Cloud database management
- Monitoring & alerts
- Automation
- Backup & recovery
- Cluster management

LAB A managed Atlas cluster with automated alerts and cloud backups.

M6 AI Databases & Vector Technology

WEEK 8

- Apache Cassandra
- Vector databases
- AI databases
- Vector search
- Embeddings
- Similarity search
- RAG database concepts
- AI application data architecture

LAB A vector database powering semantic similarity search for a RAG app.

05 Linux, Automation & Observability

MONTH 03 Automate Everything, Watch Everything

M7 Linux & Shell for DBAs

WEEK 9

- Linux administration
- File system management
- User & permissions
- Process management
- Package management
- Shell scripting
- Cron jobs
- Log management
- SSH administration

LAB A hardened Linux database host managed entirely from the shell.

M8 Python DBA Automation

WEEKS 10–11

- Python for DBA
- DBA automation
- Health checks
- Backup automation
- Monitoring scripts
- Database migration automation
- Automated reporting

LAB A Python toolkit that runs health checks and automates nightly backups.

M9 Monitoring & Observability

WEEK 12

- Prometheus
- Grafana dashboards
- Database metrics
- Infrastructure monitoring
- Alerting strategies
- Performance monitoring
- Capacity planning
- Database health checks

LAB A Grafana observability stack with alerting on live database metrics.

06 AWS Cloud & DevOps

MONTH 04 Ship Databases the Cloud-Native Way

M10 AWS Cloud for Databases

WEEKS 13–14

- AWS fundamentals
- IAM basics
- VPC networking
- Amazon EC2
- Amazon RDS
- Cloud security
- Amazon S3
- CloudWatch monitoring

LAB A production database on Amazon RDS with CloudWatch monitoring and IAM security.

M11 DevOps & Enterprise Tools

WEEK 15

- Git & GitHub
- Ansible
- Jira
- Docker
- CI/CD concepts
- Confluence
- Terraform
- Infrastructure as code

LAB Database infrastructure provisioned with Terraform and shipped through CI/CD.

M12 Cloud Migration & Reliability

WEEK 16

- Cross-region strategy
- High availability planning
- Disaster recovery planning
- Cloud database administration
- Recovery testing
- Multi-node clusters

LAB A cloud migration project with a tested cross-region disaster recovery plan.

07 Agentic AI & Production DBA

MONTH 05 Direct AI Agents, Run Real Production

M13 AI for Database Administration

WEEK 17

- AI-assisted SQL
- Query optimisation with AI
- AI-powered documentation
- AI troubleshooting
- Prompt engineering for DBAs
- Natural language → SQL
- Log analysis
- AI performance analysis

LAB An AI-assisted workflow that writes, explains and optimises complex SQL.

M14 Agentic AI for DBA

WEEKS 18–19

- Database health agents
- Root cause analysis
- AI-powered runbooks
- Monitoring agents
- SQL optimisation agents
- Agentic automation
- Incident analysis agents
- Automated DBA workflows

LAB Autonomous agents that watch, diagnose and self-heal a live database.

M15 Real-Time Production DBA & Capstone

WEEK 20

- Production troubleshooting
- Disaster recovery
- Incident management
- Performance tuning
- Cloud databases
- Capstone project
- High availability
- Monitoring

LAB A capstone: a production-ready, AI-monitored database platform on the cloud.

01 PRODUCTION POSTGRESQL + HA

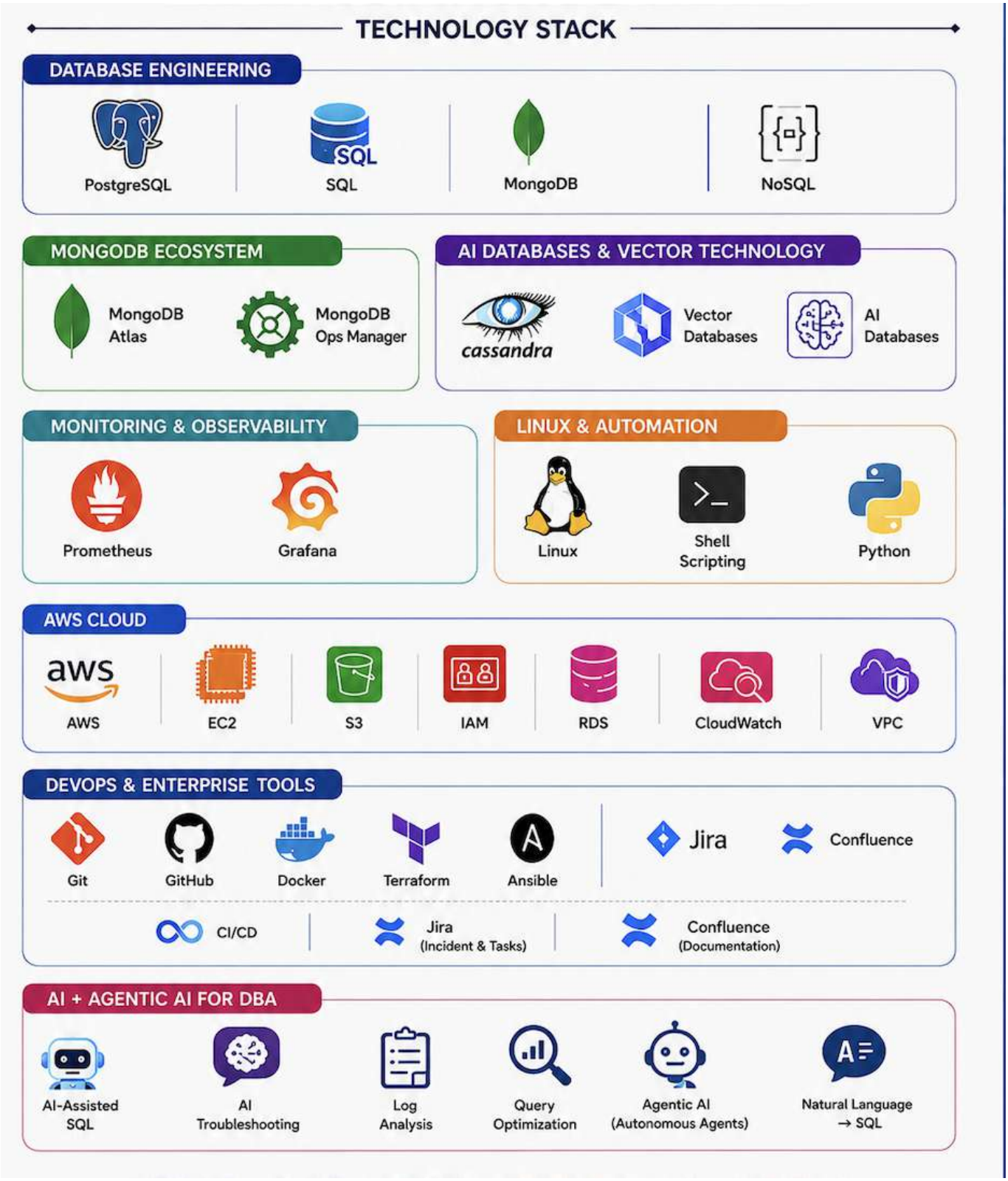
02 MONGODB + VECTOR DATABASE

03 CLOUD DEPLOY ON AWS

04 AGENTIC AI MONITORING

CAPSTONE PROJECT — BUILT, DEPLOYED, AI-MONITORED, DOCUMENTED AND PRESENTED

08 The Complete Technology Stack



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 database 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	Database Engineering & Cloud 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

09

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

10

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 — SQL, system design, production scenarios 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

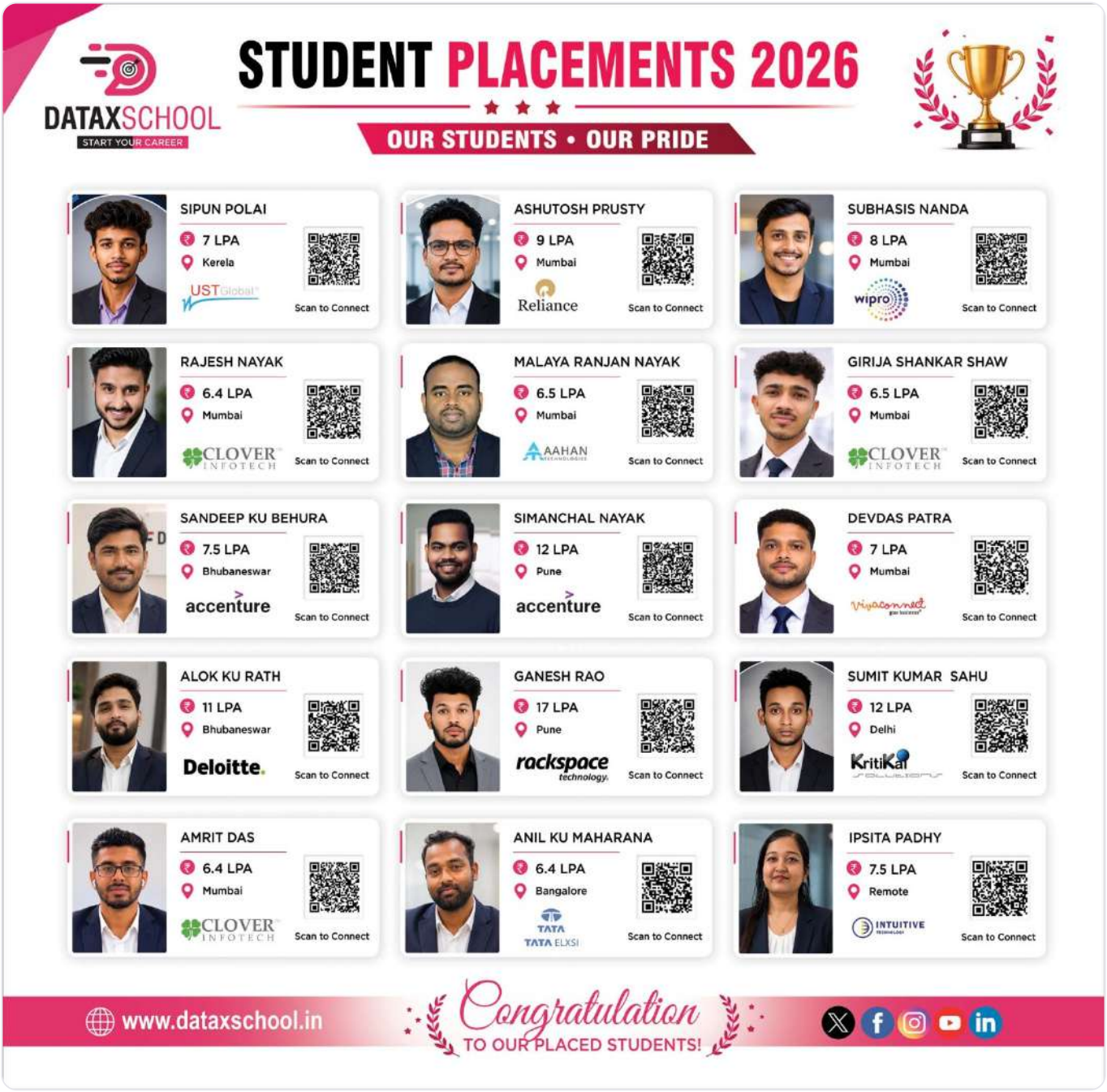
NTT DATA · Tech Mahindra · TCS TATA CONSULTANCY SERVICES · Infosys

IBM · LTIMindtree · rackspace · MAVINIER

OUR STUDENTS · OUR PRIDE

11 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

12 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

FREE TRIAL · ADMISSIONS OPEN 2026

Book a Free Demo Class

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info@dataxschool.in · **www.dataxschool.in**