INVENTATEQ
LEARN SKILLS • GET PLACED

MASTER DATA ENGINEERING WITH AI
COURSE With Placement

Build In-Demand Professional Expertise with Real-Time Hands-on Data Engineering with AI Training

BEST RATED ON TOP PLATFORMS

Google Reviews ★★★★★ | Trustpilot ★★★★★ | Sulekha ★★★★★

COURSE BENEFITS

- ✓ 100% Practical & Real-Time Hands-on Labs
- ✓ End-to-End Capstone Implementation Projects
- ✓ Industry Recognized Certification Preparation
- ✓ 100% Dedicated Placement Support in MNC's & Mock Interviews

15+ YEARS OF EXCELLENCE | **500+** HIRING PARTNERS | **25K** STUDENTS TRAINED | **15K** STUDENTS PLACED

Chat on WhatsApp
FREE Career Counselling
+91 85500 00909

YOUR FUTURE
STARTS HERE !

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ARE YOU FACING THESE CHALLENGES ?

- Still searching for your first job after graduation?
- Worried about the Gap? And don't know how to start your career?
- Stuck in a low-salary job? and seeking for better growth opportunities?
- Fear of switching to an IT career from a non-IT background
- Not getting interview calls despite applying to 100+ jobs?

TOO MUCH THEORY
NO PROJECTS
SKILL GAP
NO GUIDANCE

How Inventateq Helps You

Waiting Ends. Careers Begin.
Build job-ready skills. Start applying with confidence.

Turns Gaps into Comebacks
Close skill gaps. Rebuild your career

Break Free. Move Forward
Learn in-demand skills. Take your next career step.

Doubt Out. Confidence In.
Practice real skills. Walk into interviews prepared.

Turn Rejections into Chances
Turn every setback into skills employers value.

Be Smart Learn AI
Learn AI tools. Work smarter. Stay updated

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ABOUT INVENTATEQ

Inventateq is a leading IT training and placement company committed to transforming learners into Industry ready professionals

Our Mission
To deliver high-quality education, practical slots and career opportunities that empower individuals to achieve their dreams

Our Vision
To be a globally recognised training company known for innovation, quality and impactful learner outcomes.

Why Thousands Choose Inventateq?

15+ Years of Excellence | **500+** Hiring Partners | **25,000+** Students Trained | **15,000+** Students Placed

We Collaborate With

Deloitte. | Capgemini | amazon | HCL | Tech Mahindra

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WHY LEARN DATA ENGINEERING WITH AI ?

Enterprises worldwide are actively hiring certified Data Engineering with AI professionals to drive critical business operations, digital transformation, and modernization.

CAREER SCOPE OF DATA ENGINEERING WITH AI

Exponential Industry Demand
Rapid enterprise adoption across global IT firms, MNCs, and technology centers

Premium Salary Compensation
Command competitive compensation packages with rapid growth milestones

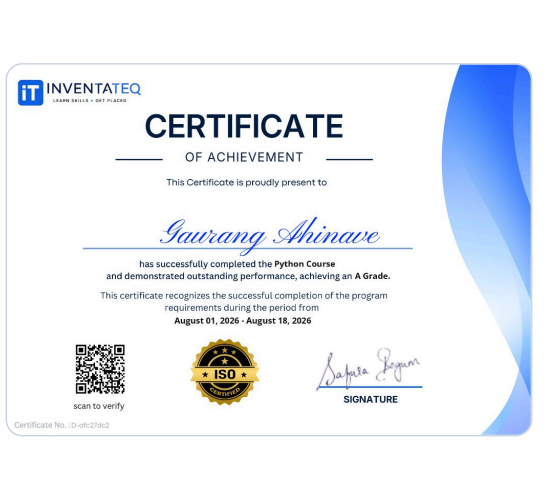
Cross-Industry Opportunities
Versatile skill set applicable across technology, consulting, finance, and core sectors

Future-Proof Career Growth
Long-term job security supported by ongoing digital modernization and tooling investment

Global Certification Pathways
Direct alignment with recognized industry certifications to validate your competence

Worldwide Job Prospects
Open doors to roles in major Indian tech hubs as well as international remote positions

INDUSTRY-RECOGNIZED CERTIFICATION



INVENTATEQ
CERTIFICATE
OF ACHIEVEMENT
This Certificate is proudly present to
Gaurang Ahinave
has successfully completed the Python Course and demonstrated outstanding performance, achieving an A Grade.
This certificate recognizes the successful completion of the program requirements during the period from August 01, 2026 - August 18, 2026
scan to verify
ISO
SIGNATURE

QR Verified | Globally Valid | ISO 9001:2015

Top-Tier Data & AI Demand. Global Analytics Roles. Premium Compensation.

Average Data Engineering with AI Salary in India

₹7.5 LPA – ₹24 LPA

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WHY INVENTATEQ ?

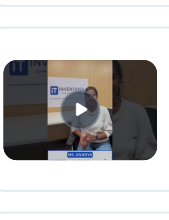
Because we have placed over 15,000+ students and we can place you as well

STUDENT PLACEMENTS

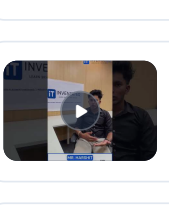
- ✓ 100% Placement Assurance Support
- ✓ 500+ Top Tech Hiring Partners
- ✓ Resume & LinkedIn Optimization
- ✓ Industry Mock Technical Interviews
- ✓ Unlimited Interview Calls Until Placed

COURSE & PLACEMENT VIDEOS

Student Genuine Feedback
Inventateq Reviews & Student Genuine Feed...
Inventateq Bangalore Reviews
Watch Video



Practical Training Success
Ananya's Placement Success Story | AI Course ...
Industry Tech Career
Watch Video



Placement Story
9.5 LPA Career Success in AI!...
Campus to MNC Offer
Watch Video

Interview Skills & Growth
Data Science Course in Bangalore, Learn AI Tr...
Free Student Masterclass
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> **At Inventateq, Your Success is Our Mission !**

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GUARANTEED PLACEMENT SUPPORT

We don't just teach, we prepare you for the real world!

- ✓ Aptitude Training
- ✓ Technical Training
- ✓ Mock Interviews
- ✓ HR Interview Preparation
- ✓ Resume Preparation
- ✓ Cover Letter Preparation
- ✓ LinkedIn Profile Optimisation
- ✓ Job Portal Access
- ✓ Placement Drives & Hiring Events

OUR RECRUITMENT PARTNERS

TATA | Infosys | wipro | Capgemini | Tech Mahindra | LARSEN & TOUBRO | HCL TECH | accenture

OUR PLACEMENT STATS

Our placement record reflects consistent growth, with students securing opportunities across leading companies in diverse industries.

15,000+ Students Placed | **500+** Companies Hired | **95%** Placement Ratio | **6 LPA** Average Package

Check Most Recent Placements

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CAREER PROGRESSION

Job responsibilities, technical competency and portfolio evidence for each role.

ROLE PATHWAY	TYPICAL RESPONSIBILITIES	PORTFOLIO PROOF
Data Engineering Developer	Manage core Data Engineering tasks, configure tooling, and support delivery.	Practical Data Engineering setup files, exercise scripts, and documentation.
Data Engineering Specialist	Build practical Data Warehousing workflows, implement features, and resolve issues.	Functional Data Warehousing modules, workflow configs, and practical deliverables.
Lead Data Engineering Engineer	Lead Data Engineering technical delivery, design solutions, and set standards.	Complete Data Engineering capstone artifacts, technical blueprints, and reports.

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SKILLS ROADMAP

Progress from core foundations to production-ready enterprise workflows.

MILESTONE	PRACTICAL OUTPUT	REVIEW EVIDENCE
Milestone 1 (Foundations)	Master fundamental Data Engineering concepts, environment setup, and tools.	Configured Data Engineering workspace and verified practice exercises.
Milestone 2 (Implementation)	Develop practical Data Warehousing workflows and functional domain modules.	Working Data Warehousing project modules and validated practice outputs.
Milestone 3 (Advanced Workflows)	Implement advanced Apache Airflow features, integrations, and optimizations.	Validated Apache Airflow configurations and technical review outputs.
Milestone 4 (Production Capstone)	Deliver an end-to-end Data Engineering capstone project and technical review.	Complete Data Engineering project portfolio artifact and defense.

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DETAILED MODULE PLAN

14 in-depth modules • 3 Months Duration • Hands-on practical training

1 MODULE 1 — Data Engineering Fundamentals

- Introduction to Data Engineering
- Data Engineer vs Data Analyst vs Data Scientist
- Data Engineering lifecycle
- Structured, semi-structured and unstructured data
- OLTP vs OLAP
- ETL vs ELT
- Batch vs real-time processing
- Data warehouse vs data lake

GUIDED LAB
Log in to the system, practice basic navigation, and complete your first Data Engineering exercise.

INTERVIEW & ASSESSMENT
Explain what Data Engineering is used for and why companies choose it in simple words.

2 MODULE 2 — Python for Data Engineering

- Python fundamentals
- Variables and data types
- Lists, tuples, dictionaries and sets
- Functions
- Lambda functions
- Exception handling
- File handling
- Modules and packages

GUIDED LAB
Build and evaluate a practical machine learning workflow for Python fundamentals.

INTERVIEW & ASSESSMENT
Explain how Python fundamentals helps businesses solve complex problems with AI.

3 MODULE 3 — Advanced SQL & Database Engineering

- SQL fundamentals
- SELECT, WHERE, GROUP BY, HAVING
- Joins
- Subqueries
- CTEs
- CASE statements
- Window functions
- Ranking functions

GUIDED LAB
Build and evaluate a practical machine learning workflow for SQL fundamentals.

INTERVIEW & ASSESSMENT
Explain how SQL fundamentals helps businesses solve complex problems with AI.

4 MODULE 4 — Data Warehousing & Data Modeling

- Data warehouse architecture
- Data marts
- Fact tables
- Dimension tables
- Star schema
- Snowflake schema
- Slowly Changing Dimensions
- Surrogate keys

GUIDED LAB
Build and evaluate a practical machine learning workflow for Data warehouse architecture.

INTERVIEW & ASSESSMENT
Explain how Data warehouse architecture helps businesses solve complex problems with AI.

5 MODULE 5 — ETL / ELT & Data Pipeline Development

- ETL architecture
- ELT architecture
- Source extraction
- Data ingestion
- Transformation
- Loading strategies
- Full load
- Incremental load

GUIDED LAB
Build and evaluate a practical machine learning workflow for ETL architecture.

INTERVIEW & ASSESSMENT
Explain how ETL architecture helps businesses solve complex problems with AI.

6 MODULE 6 — Big Data & Apache Spark

- Big Data fundamentals
- Hadoop ecosystem overview
- Apache Spark architecture
- Spark cluster concepts
- Driver and Executors
- Jobs, stages and tasks
- DataFrames
- Spark SQL

GUIDED LAB
Build and evaluate a practical machine learning workflow for Big Data fundamentals.

INTERVIEW & ASSESSMENT
Explain how Big Data fundamentals helps businesses solve complex problems with AI.

7 MODULE 7 — Databricks, Delta Lake & Lakehouse

- Databricks platform
- Lakehouse architecture
- Delta Lake
- Delta tables
- ACID transactions
- Schema enforcement
- Schema evolution
- Time travel

GUIDED LAB
Build and evaluate a practical machine learning workflow for Databricks platform.

INTERVIEW & ASSESSMENT
Explain how Databricks platform helps businesses solve complex problems with AI.

8 MODULE 8 — Apache Airflow & Workflow Orchestration

- Introduction to orchestration
- Airflow architecture
- DAGs
- Tasks
- Operators
- Dependencies
- Scheduling
- Sensors

GUIDED LAB
Build and evaluate a practical machine learning workflow for orchestration.

INTERVIEW & ASSESSMENT
Explain how orchestration helps businesses solve complex problems with AI.

9 MODULE 9 — dbt & Modern Data Transformation

- Introduction to dbt
- ELT architecture
- Models
- Sources
- Seeds
- Tests
- Documentation
- Macros

GUIDED LAB
Build and evaluate a practical machine learning workflow for dbt.

INTERVIEW & ASSESSMENT
Explain how dbt helps businesses solve complex problems with AI.

10 MODULE 10 — Cloud Data Engineering

- Cloud fundamentals:
- AWS / Azure / GCP overview
- Cloud storage
- Compute
- IAM concepts
- Networking fundamentals
- Data security
- Cloud databases

GUIDED LAB
Build and evaluate a practical machine learning workflow for Cloud fundamentals.

INTERVIEW & ASSESSMENT
Explain how Cloud fundamentals helps businesses solve complex problems with AI.

11 MODULE 11 — Real-Time Data Engineering & Streaming

- Batch vs streaming
- Real-time architecture
- Kafka fundamentals
- Producers
- Consumers
- Partitions
- Consumer groups
- Offsets

GUIDED LAB
Build and evaluate a practical machine learning workflow for Batch vs streaming.

INTERVIEW & ASSESSMENT
Explain how Batch vs streaming helps businesses solve complex problems with AI.

12 MODULE 12 — Data Quality, Governance & Security

- Data quality fundamentals
- Data validation
- Null checks
- Duplicate detection
- Schema validation
- Referential integrity
- Data lineage
- Metadata

GUIDED LAB
Build and evaluate a practical machine learning workflow for Data quality fundamentals.

INTERVIEW & ASSESSMENT
Explain how Data quality fundamentals helps businesses solve complex problems with AI.

13 MODULE 13 — AI-Assisted Data Engineering

- Generative AI fundamentals for Data Engineers
- AI coding assistants
- Prompt engineering
- AI-assisted Python development
- AI-assisted SQL generation
- Query optimization with AI
- Debugging pipelines using AI
- Creating documentation with AI

GUIDED LAB
Experiment with prompt designs and test automated text outputs for practical tasks.

INTERVIEW & ASSESSMENT
Explain how modern AI models process prompts and how to handle unexpected responses.

14 MODULE 14 — Production Data Engineering & DevOps

- Git and GitHub
- Branching strategies
- Pull requests
- Code reviews
- Environment management
- Docker fundamentals
- CI/CD concepts
- Unit testing

GUIDED LAB
Build and evaluate a practical machine learning workflow for Git and GitHub.

INTERVIEW & ASSESSMENT
Explain how Git and GitHub helps businesses solve complex problems with AI.

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REAL-WORLD PORTFOLIO PROJECTS

Practical industry scenarios, tools applied, and demonstrable project outcomes.

Project 1: Git and GitHub

What it is: Set up the core Data Engineering environment and configure essential business settings.
What you do: Initialize base configurations, create clean templates, and verify workflow controls.
Tools used: Data Engineering with AI, Data Engineer vs
Project outcome: Working project foundation configured and tested according to best practices.

Project 2: Branching strategies

What it is: Build practical Advanced SQL Database modules to handle everyday business operations.
What you do: Create core functional components, validate input data, and prevent common errors.
Tools used: Data Engineering with AI, Advanced SQL Database, SQL
Project outcome: Functional business module ready to run and demo with zero manual errors.

Project 3: Pull requests

What it is: Connect ETL ELT Data with ETL architecture to automate data and team workflows.
What you do: Set up automated pipelines, link required services, and run end-to-end tests.
Tools used: Data Engineering with AI, ETL ELT Data, ETL architecture
Project outcome: Live automated workflow pipeline documented with clear usage guides.

Project 4: Code reviews

What it is: Optimize Apache Airflow Workflow workflows for security, speed, and reliability.
What you do: Audit performance bottlenecks, apply security rules, and optimize execution speed.
Tools used: Data Engineering with AI, Apache Airflow Workflow, orchestration
Project outcome: Production-grade technical deliverable ready to add to your personal portfolio.

Project 5: Environment management

What it is: Implement advanced Cloud Data Engineering features matching real industry requirements.
What you do: Configure custom settings, automate repetitive tasks, and test business logic.
Tools used: Data Engineering with AI, Cloud Data Engineering, Cloud
Project outcome: Production-grade technical deliverable ready to add to your personal portfolio.

Project 6: Data Engineering with AI End-to-End Capstone

What it is: Build a complete, production-ready Data Engineering with AI project bringing all skills together.
What you do: Design, code, test, and document a full project workflow from scratch to launch.
Tools used: Data Engineering with AI, Data Quality Governance, Data quality
Project outcome: Verified capstone project ready to showcase on your resume and interview calls.

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ASSESSMENT FRAMEWORK

Module tests, practical evaluations, capstone and completion criteria.

COMPONENT	ASSESSMENT FOCUS	PASS EVIDENCE
Module Knowledge Quizzes	Core Data Engineering principles, industry terminology, and workflow concepts	Consistent passing score across syllabus unit evaluation tests
Lab Submissions & Practice Reviews	Hands-on Data Warehousing implementation, configuration, and practical exercises	Working lab deliverables satisfying practical evaluation rubrics
Hands-On Mini Projects	Independent problem-solving using intermediate Apache Airflow techniques	Functional project artifacts addressing realistic domain scenarios
Final Production Capstone	End-to-end Data Engineering implementation, quality review, and delivery	Complete capstone submission with technical walkthrough review
Technical Mock Viva	Technical reasoning, troubleshooting approaches, and communication	Successfully defending project decisions in structured mock panels

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RESUME, GITHUB & LINKEDIN

Evidence-based resume writing and professional project presentation.

- Modular GitHub repository per project with setup steps, dependencies, and clean commits.
- Detailed Data Engineering diagrams, component specifications, and end-to-end workflows.
- Visual project sheets, live demonstration walkthroughs, and verified functional outputs.
- Project documentation covering Data Warehousing setup, configuration steps, and test notes.
- Direct resume bullet points highlighting hands-on Data Engineering tools and technical outcomes.
- Structured practice for technical interview pitches, walkthroughs, and viva defense.

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OUR STUDENT

Meet the learners who turned their goals into successful careers through dedication, skill, and continuous growth.

READ REVIEWS

MS. SNEHA
Placed at Wipro (9.5 LPA)

"The practical lab sessions gave me the confidence to transition into enterprise roles. Working on real-world datasets helped me clear technical interviews effortlessly!"
Course Completed : **Data Engineering with AI Specialist**
G ★★★★★

MR. HARSHIT
Placed at Accenture (11.2 LPA)

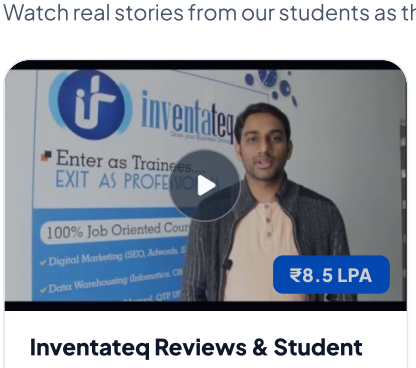
"Inventateq's focus on industry capstone projects and mock interviews was game-changing. The mentors guided me through every real-world implementation hurdle."
Course Completed : **Data Engineering with AI Specialist**
G ★★★★★

MR. KARTHIK
Placed at Capgemini (10.5 LPA)

"Moving from beginner theory to hands-on enterprise tools was seamless. The portfolio defense preparation helped me crack my MNC placement round!"
Course Completed : **Data Engineering with AI Specialist**
G ★★★★★

WATCH VIDEOS

Watch real stories from our students as they talk about their journey, growth, and placement success.



Inventateq Reviews & Student Genuine Feedback Bangalore
Course Video 1 • Student Feedback
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INVENTATEQ
MS. ANANYA
₹7.8 LPA

Ananya's Placement Success Story | AI Course | 6.5 LPA at Accenture| Inventateq
Course Video 2 • Student Feedback
Watch Story

INVENTATEQ
MR. HARSHIT
₹9.2 LPA

9.5 LPA Career Success in AI!
Course Video 3 • Student Feedback
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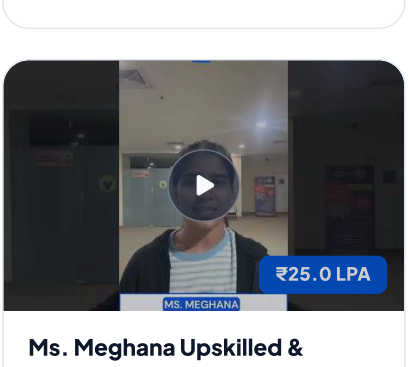
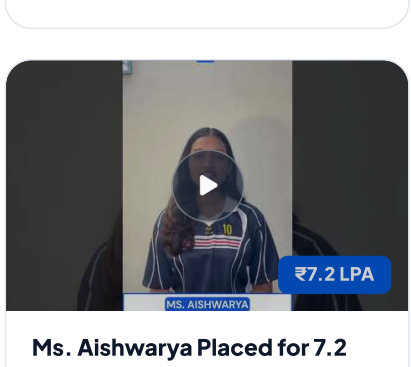
Data Science Course in Bangalore, Learn AI Training with Placement
Course Video 4 • Student Feedback
Watch Story



Ms. Meghana Upskilled & Placed at 25 LPA
Top Offer • Enterprise Consultant
Watch Story



Ms. Aishwarya Placed for 7.2 LPA Package
Verified Offer • Software Dev
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JOB HUNTING ENDS HERE

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