MASTER RAG & LLM APPLICATION DEVELOPMENT
COURSE With Placement

Build In-Demand Professional Expertise with Real-Time Hands-on RAG & LLM Application Development Training

BEST RATED ON TOP PLATFORMS

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

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

Chat on WhatsApp
FREE Career Counselling
+91 85500 00909

YOUR FUTURE
STARTS HERE !

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?

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.

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

We Collaborate With

Deloitte. Capgemini amazon HCL Tech Mahindra

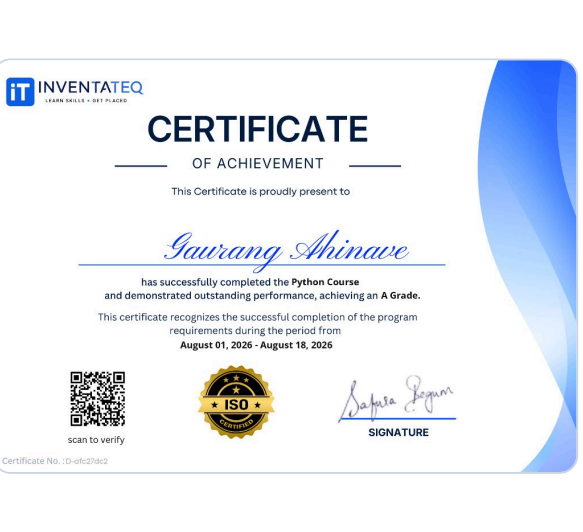
WHY LEARN RAG & LLM APPLICATION DEVELOPMENT ?

Enterprises worldwide are actively hiring certified RAG & LLM Application Development professionals to drive critical business operations, digital transformation, and modernization.

CAREER SCOPE OF RAG & LLM APPLICATION DEVELOPMENT

- **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
SIGNATURE

QR Verified · Globally Valid · ISO 9001:2015

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

Average RAG & LLM Engineer Salary in India
₹7.5 LPA – ₹24 LPA

WHY INVENTATEQ ?

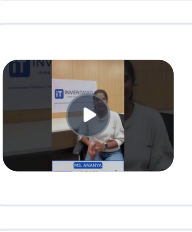
Because we have placed over 15,000+ students and we can place you as well

STUDENT PLACEMENTS

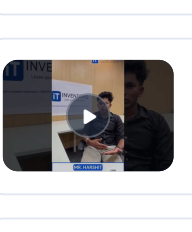
- 100% Placement Assistance Support
- 500+ Top Tech Hiring Partners
- Resume & LinkedIn Optimization
- Industry Mock Technical Interviews
- Unlimited Interview Calls Until Placed

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 All...
Campus to MNC Offer
Watch Video

Interview Skills & Growth
Data Science Course in Bangalore, Learn AI...
Free Student Masterclass
Watch Video

> At Inventateq, Your Success is Our Mission !

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+	500+	95%	6 LPA
Students Placed	Companies Hired	Placement Ratio	Average Package

Check Most Recent Placements

CAREER PROGRESSION

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

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

SKILLS ROADMAP

Progress from core foundations to production-ready enterprise workflows.

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

DETAILED MODULE PLAN

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

1 MODULE 1 — LLM & Generative AI Foundations

- Learning Objectives
- Understand how modern LLM applications work and learn the components required to build AI-powered applications.
- Generative AI fundamentals
- LLMs and their capabilities
- LLM application architecture
- Tokens and context windows
- LLM inference
- Temperature and generation parameters

GUIDED LAB
Complete a guided practical exercise on Learning Objectives and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Learning Objectives and how you use it in real job roles.

2 MODULE 2 — Prompt Engineering & LLM APIs

- Learning Objectives
- Develop reliable prompts and integrate LLMs into practical applications.
- Zero-shot prompting
- Few-shot prompting
- Role prompting
- Chain-of-thought concepts
- Prompt templates
- Context injection

GUIDED LAB
Complete a guided practical exercise on Learning Objectives and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Learning Objectives and how you use it in real job roles.

3 MODULE 3 — Embeddings & Semantic Search

- Learning Objectives
- Understand how text is converted into vectors and how semantic search powers RAG applications.
- What are embeddings?
- Text-to-vector conversion
- Embedding models
- Semantic similarity
- Cosine similarity
- Vector representations

GUIDED LAB
Complete a guided practical exercise on Learning Objectives and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Learning Objectives and how you use it in real job roles.

4 MODULE 4 — Vector Databases

- Learning Objectives
- Learn how vector databases store and retrieve high-dimensional embeddings efficiently.
- Vector database architecture
- Vector indexing
- Similarity search
- Metadata filtering
- Collections
- Documents and chunks

GUIDED LAB
Complete a guided practical exercise on Learning Objectives and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Learning Objectives and how you use it in real job roles.

5 MODULE 5 — RAG Fundamentals

- Learning Objectives
- Build complete Retrieval-Augmented Generation pipelines.
- What is RAG?
- Why RAG is required
- RAG architecture
- Document ingestion
- Document loading
- Text extraction

GUIDED LAB
Complete a guided practical exercise on Learning Objectives and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Learning Objectives and how you use it in real job roles.

6 MODULE 6 — LangChain & LlamaIndex for LLM Applications

- Learning Objectives
- Use industry frameworks to develop modular and maintainable LLM applications.
- LangChain
- Models
- Prompts
- Output parsers
- Document loaders
- Text splitters

GUIDED LAB
Build a simple decision script that checks user input and repeats actions automatically.

INTERVIEW & ASSESSMENT
Explain when to use loops versus if-else conditions in simple words.

7 MODULE 7 — Advanced RAG

- Learning Objectives
- Improve retrieval accuracy and build more reliable RAG systems.
- Advanced chunking strategies
- Recursive chunking
- Semantic chunking
- Parent-child retrieval
- Hybrid search
- Keyword + vector search

GUIDED LAB
Complete a guided practical exercise on Learning Objectives and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Learning Objectives and how you use it in real job roles.

8 MODULE 8 — RAG Evaluation, Guardrails & Production Optimization

- Learning Objectives
- Learn how to evaluate, secure and optimize LLM/RAG applications.
- RAG evaluation
- Retrieval evaluation
- Answer evaluation
- Faithfulness
- Context relevance
- Answer relevance

GUIDED LAB
Complete a guided practical exercise on Learning Objectives and verify your results.

INTERVIEW & ASSESSMENT
Explain the core purpose of Learning Objectives and how you use it in real job roles.

9 MODULE 9 — LLM Agents & Tool Calling

- Learning Objectives
- Understand how LLM applications can use external tools and perform multi-step tasks.
- AI agents fundamentals
- Agent architecture
- Tool calling
- Function calling
- Agent workflows
- Decision-making

GUIDED LAB
Create reusable functions to perform calculations and organize them into clean files.

INTERVIEW & ASSESSMENT
Explain why programmers use functions to avoid writing duplicate code.

10 MODULE 10 — Deployment & Production LLM Applications

- Learning Objectives
- Deploy LLM applications and understand production deployment practices.
- Application architecture
- FastAPI
- Streamlit
- REST APIs
- Environment variables
- API security

GUIDED LAB
Connect your web app to a live API to fetch, display, and save customer information.

INTERVIEW & ASSESSMENT
Explain how a web browser asks a server for data using simple analogies.

REAL-WORLD PORTFOLIO PROJECTS

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

Project 1: Learning Objectives

What it is: Set up the core LLM Generative AI environment and configure essential business settings.
What you do: Initialize base configurations, create clean templates, and verify workflow controls.
Tools used: RAG & LLM, LLM Generative AI, Learning Objectives
Project outcome: Working project foundation configured and tested according to best practices.

Project 2: Application architecture

What it is: Build practical Embeddings Semantic Search modules to handle everyday business operations.
What you do: Create core functional components, validate input data, and prevent common errors.
Tools used: RAG & LLM, Embeddings Semantic Search, Learning Objectives
Project outcome: Functional business module ready to run and demo with zero manual errors.

Project 3: Streamlit

What it is: Connect RAG with Learning Objectives to automate data and team workflows.
What you do: Set up automated pipelines, link required services, and run end-to-end tests.
Tools used: RAG & LLM, Learning Objectives
Project outcome: Live automated workflow pipeline documented with clear usage guides.

Project 4: REST APIs

What it is: Optimize Advanced RAG workflows for security, speed, and reliability.
What you do: Audit performance bottlenecks, apply security rules, and optimize execution speed.
Tools used: RAG & LLM, Advanced RAG, Learning Objectives
Project outcome: Production-grade technical deliverable ready to add to your personal portfolio.

Project 5: RAG & LLM End-to-End Capstone

What it is: Build a complete, production-ready RAG & LLM project bringing all skills together.
What you do: Design, code, and document a full project workflow from scratch to launch.
Tools used: RAG & LLM, LLM Agents Tool, Learning Objectives
Project outcome: Verified capstone project ready to showcase on your resume and interview calls.

ASSESSMENT FRAMEWORK

Module tests, practical evaluations, capstone review and completion criteria.

COMPONENT	ASSESSMENT FOCUS	PASS EVIDENCE
Module Knowledge Quizzes	Core LLM principles, industry terminology, and workflow concepts	Consistent passing score across syllabus unit evaluation tests
Lab Submissions & Practice Reviews	Hands-on Embeddings implementation, configuration, and practical exercises	Working lab deliverables satisfying practical evaluation rubrics
Hands-On Mini Projects	Independent problem-solving using intermediate LangChain techniques	Functional project artifacts addressing realistic domain scenarios
Final Production Capstone	End-to-end RAG & LLM 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

RESUME, GITHUB & LINKEDIN

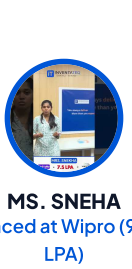
Evidence-based resume writing and professional project presentation.

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

OUR STUDENT

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

READ REVIEWS

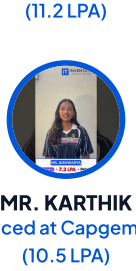


MS. SNEHA
Placed at Wipro (9.5 LPA)

"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 : **RAG & LLM Application Development Specialist** ★★★★★

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 : **RAG & LLM Application Development Specialist** ★★★★★

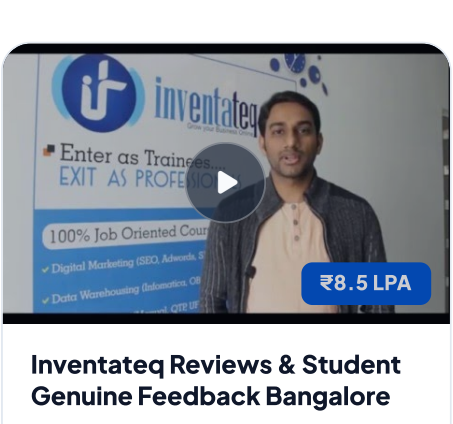


MR. KARTHIK
Placed at Capgemini (10.5 LPA)

"Moving from beginner theory to hands-on enterprise tools was seamless. The portfolio defense preparation helped me crack my MNC placement round!"
Course Completed : **RAG & LLM Application Development Specialist** ★★★★★

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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₹7.8 LPA
MS. ANANYA

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

₹9.2 LPA
MR. HARSHIT

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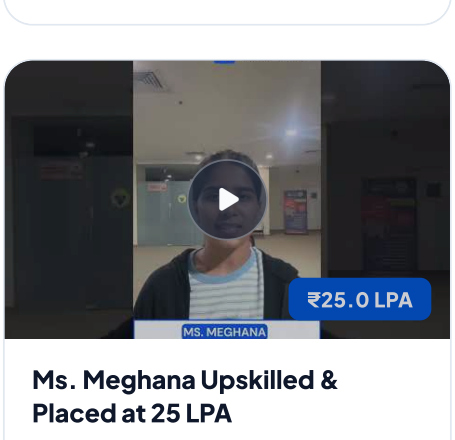
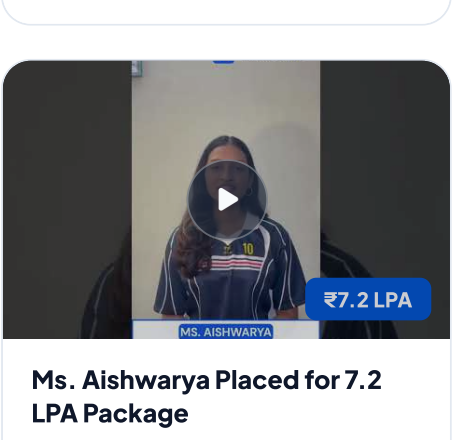
Data Science Course in Bangalore, Learn AI Training with Placement
Course Video 4 • Student Feedback
Watch Story



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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CONTACT US

JOB HUNTING ENDS HERE

Start your career with **RAG & LLM Application Development** course that gets your **Dream Job!**

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