

PROGRAM BROCHURE

GenAI Bootcamp

Learn how modern GenAI applications actually work — from LLM APIs and structured outputs to RAG, evaluation, tool-using agents, MCP and production deployment.

 90-Day Live Cohort Live Sessions 14+ GenAI Projects InfraOne AI Labs AI-Enabled LMS 24/7 Support**1189+**

STUDENTS TRAINED

14+

GENAI BUILDS

50+ AI

LEARNING TOOLS

DURATION

90 Days

FORMAT

Live Cohort

NEXT BATCH

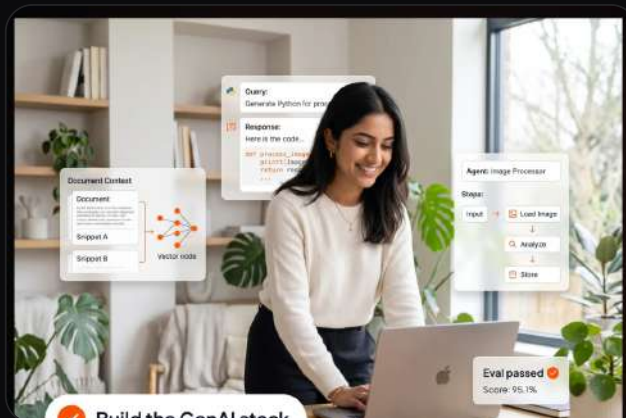
Starting Soon

WHY THIS PROGRAM

Don't get left behind in GenAI

The gap is growing between people who use AI and people who can build with it. Spend 90 days becoming the latter.

- ✓ Developers & AI learners ready to go beyond prompting into building
- ✓ Intermediate learners who want RAG, agents & evals as portfolio proof
- ✓ Anyone who wants to be early to the most in-demand AI skill set of 2026



WHAT'S INSIDE THE COHORT

 90-Day Live Cohort

 Live Sessions

 14+ Projects

 InfraOne Labs

 AI-Enabled LMS

 24/7 Support

HOW THE COHORT WORKS

Live classes, always recorded

Sessions run live with mentors so you can ask questions in the room. Every class is recorded and published to the LMS.

InfraOne AI Labs

Practical work runs in the browser on managed cloud and model environments. No expensive GPU laptop required.

Mentor & doubt support

Weekly doubt-clearing sessions, code review on every submission and learner support throughout the cohort.

Portfolio & interview prep

GitHub and portfolio guidance, resume reviews, mock interviews, a capstone showcase and job placement assistance.

CURRICULUM

Course Syllabus

A 90-day, project-first roadmap through the engineering behind modern GenAI applications — prompting, structured outputs, RAG, tool calling, agents, MCP, evaluation, reliability and deployment.

13

MODULES

48

LIVE LECTURES

144

HOURS

14+

PROJECTS

NO.	MODULE	LECTURES	HOURS	PROJECT WORK
01	LLM & GENAI FOUNDATIONS	3	9	Your First LLM-Powered Application
02	PROMPT ENGINEERING & STRUCTURED OUTPUTS	3	9	Structured AI Extraction Engine
03	EMBEDDINGS & SEMANTIC SEARCH	4	12	Semantic Search Engine
04	RETRIEVAL-AUGMENTED GENERATION (RAG)	5	15	Chat With Your PDF
05	ADVANCED RAG & KNOWLEDGE SYSTEMS	4	12	Company Knowledge-Base Assistant
06	GENAI EVALUATION & RELIABILITY	4	12	GenAI Evaluation Lab
07	TOOL CALLING & AI WORKFLOWS	4	12	Tool-Using AI Assistant
08	AI RESEARCH AGENTS	4	12	AI Research Agent
09	AGENTIC AI & MULTI-AGENT SYSTEMS	4	12	Multi-Agent Content Team
10	LLMS + DATABASES	3	9	Text-to-SQL Data Assistant
11	MCP & CONNECTED AI SYSTEMS	3	9	Your Own MCP Server + AI Client
12	PRODUCTION GENAI ENGINEERING	3	9	Production-Ready GenAI Application
13	CAPSTONE PROJECT	4	12	Autonomous Task Agent

Every module ends in project work — you leave with 14+ portfolio builds, not a certificate of attendance.

Module details 01–04

FOUNDATIONS → RETRIEVAL

MODULE 01

3 Lectures · 9 Hours

LLM & GenAI Foundations

How LLMs work at an application level

Tokens, context windows, temperature, inference

System, user and assistant messages

Working with model APIs

Streaming responses

Choosing the right model for a task

Open vs proprietary models

Cost and latency basics

PROJECT

Your First LLM-Powered Application

MODULE 02

3 Lectures · 9 Hours

Prompt Engineering & Structured Outputs

Prompt anatomy and system instructions

Zero-shot and few-shot prompting

Context engineering

Prompt templates

Structured JSON outputs

Schemas and output validation

Retry and fallback patterns

Reliable information extraction

PROJECT

Structured AI Extraction Engine

MODULE 03

4 Lectures · 12 Hours

Embeddings & Semantic Search

What embeddings represent

Vector similarity

Semantic vs keyword search

Creating and storing embeddings

Vector databases and metadata filtering

Hybrid retrieval

Ranking and reranking

Search quality debugging

PROJECT

Semantic Search Engine

MODULE 04

5 Lectures · 15 Hours

Retrieval-Augmented Generation (RAG)

RAG architecture

Document ingestion and chunking strategies

Embedding pipelines and retrieval

Context assembly

Grounded generation

Source citations

Hallucination reduction

Common RAG failure modes

PROJECT

Chat With Your PDF

Module details 05–08

KNOWLEDGE → EVALS → AGENTS

MODULE 05

4 Lectures · 12 Hours

Advanced RAG & Knowledge Systems

Multi-document retrieval

Query rewriting

Metadata-aware search

Reranking and context compression

Retrieval filters

Knowledge-base architecture

Access and document boundaries

Improving retrieval quality

PROJECT

Company Knowledge-Base Assistant

MODULE 06

4 Lectures · 12 Hours

GenAI Evaluation & Reliability

Why “it looks good” is not an evaluation strategy

Evaluation datasets and golden answers

Retrieval and answer-quality evaluation

Groundedness and relevance

LLM-as-judge patterns

Human evaluation

Regression testing

Prompt and model comparison, failure analysis

PROJECT

GenAI Evaluation Lab

MODULE 07

4 Lectures · 12 Hours

Tool Calling & AI Workflows

Function calling

Designing tool schemas

Connecting external APIs

Tool selection and input validation

Error handling and retry logic

Workflow state

Human approval steps

Deterministic workflows vs agents

PROJECT

Tool-Using AI Assistant

MODULE 08

4 Lectures · 12 Hours

AI Research Agents

Planning multi-step AI tasks

Web and search tools

Source collection

Reading and synthesising information

Citation workflows

Research loops and state management

Tool orchestration

Verifying agent outputs

PROJECT

AI Research Agent

Module details 09–12

MULTI-AGENT → MCP → PRODUCTION

MODULE 09

4 Lectures · 12 Hours

Agentic AI & Multi-Agent Systems

Agent loops, planning and execution

Short- and long-term memory concepts

Agent roles and agent-to-agent workflows

Task delegation and shared context

Critique and revision loops

Human-in-the-loop systems

When multi-agent architecture is unnecessary

PROJECT

Multi-Agent Content Team

MODULE 10

3 Lectures · 9 Hours

LLMs + Databases

Natural language to structured queries

Schema awareness

Text-to-SQL architecture

Query generation and validation

Safe database access

Executing generated SQL

Results into natural-language answers

Guarding against unsafe queries

PROJECT

Text-to-SQL Data Assistant

MODULE 11

3 Lectures · 9 Hours

MCP & Connected AI Systems

Why Model Context Protocol exists

MCP architecture

MCP clients and servers

Tools and resources

Context sharing

Connecting external services

Permissions and access

Building reusable AI integrations

PROJECT

Your Own MCP Server + AI Client

MODULE 12

3 Lectures · 9 Hours

Production GenAI Engineering

Prompt injection risks

Input and output validation, guardrails

Tool permissions

Model fallbacks and retry strategies

Caching, streaming and token usage

Cost and latency optimisation

Logging, tracing and observability

Deployment architecture

PROJECT

Production-Ready GenAI Application

MODULE 13 · CAPSTONE · 4 LECTURES · 12 HOURS

Autonomous Task Agent

The flagship build of the cohort. One agent, given a goal, that plans its own steps, uses real tools, keeps state, recovers from failure and finishes the job — engineered, evaluated and deployed by you.



WHAT YOUR AGENT WILL DO

Understand a goal

Plan multiple steps

Search the web

Use external tools

Work with files and data

Maintain task state

Remember relevant information

Recover when a step fails

Re-plan when necessary

Track progress

Complete the goal autonomously

REVIEWED ON

Architecture, evals, reliability

ENDS WITH

A live capstone showcase

YOU KEEP

The repo, the demo, the write-up

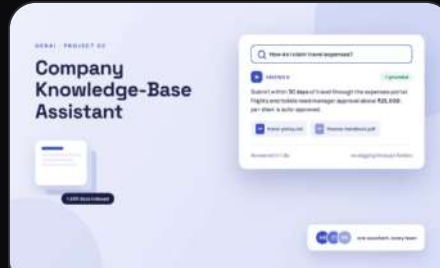
PORTFOLIO

Projects you will do

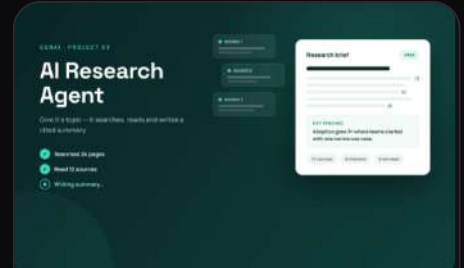
You won't just complete projects — you'll build a portfolio that shows employers exactly what you can do.



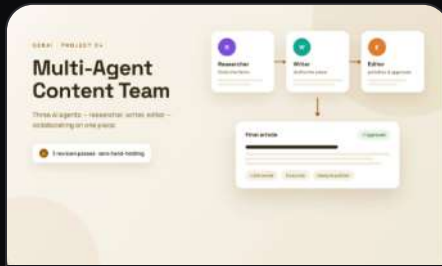
Chat With Your PDF



Company Knowledge-Base Assistant



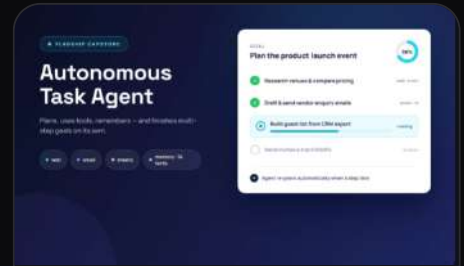
AI Research Agent



Multi-Agent Content Team



Text-to-SQL Data Assistant



Autonomous Task Agent

Your learning doesn't stop here — unlock 8+ more guided builds inside the cohort.

A working app

Running in Labs, demo-ready.

A clean repo

Reviewed structure and README.

An eval report

How you measured quality.

A walkthrough

The story you tell in interviews.

TOOLKIT

Tools you'll build with

Work with the modern GenAI stack across models, retrieval, agents, evaluation, development and deployment — while learning the concepts behind each tool.



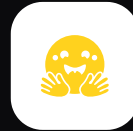
OpenAI



Claude



Gemini



Hugging Face



Python



Jupyter



VS Code



GitHub



LangChain



LangGraph



Qdrant



PostgreSQL



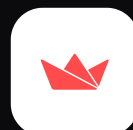
MCP



FastAPI



Docker



Streamlit



Gradio

and many
more tools...

CERTIFICATION



Get certified by InfraOne School of AI

Complete your capstone project and earn a certificate that reflects real, hands-on work — not just attendance.

- ✓ Complete weekly assignments
- ✓ Submit required projects
- ✓ Finish the capstone
- ✓ Participate in the final showcase

MENTORS

Learn from **industry experts**

Practitioners who build and ship this stack for a living — reviewing your work every week.


SHUBHAM JAIN

Data Analytics Mentor

Consultant · Catastrophe Risk Modeler · Ex-WNS · EXL

Guides learners on dashboards, analytics workflows, business insights and project thinking.

SQL

Python

Power BI

AI/ML

 linkedin.com/in/shubham-jain-7b467a1b0

KANISHKA AGGARWAL

Data Science Mentor

Consultant · Deloitte

Guides learners on analytics thinking, business problem-solving, dashboard storytelling and clear insights.

Analytics

Consulting

Dashboards

Business Insights

 linkedin.com/in/kanishka-aggarwal-jan17

AAKASH SHARMA

AI Systems Mentor

Application Consultant · Capgemini

Guides learners on AI system design, applied ML workflows and building practical AI projects end to end.

AI Systems

Machine Learning

LLM

RAG

 linkedin.com/in/aakash-sharma-a74994233

RAHUL RANJAN

GenAI Mentor

Senior Software Engineer · Curio Digital Therapeutics Inc.

Guides learners on GenAI application development, scalable backends and secure AI-powered products.

GenAI

Node.js

FHIR

EHR/EMR

 linkedin.com/in/rahul-ranjan-healthtech

OUTCOMES

What learners say about project-first learning

Reviews from across InfraOne School of AI cohorts.



“The Data Analytics with AI cohort changed how I approach problems. SQL, Power BI and Python felt overwhelming at first, but the mentors broke everything down with real datasets. My capstone project became the centrepiece of every interview I gave.”



Shubham Kumar

Software Developer @ Fujitsu



“Every week we worked on live business data, no toy datasets. Pairing Python with AI tools for analysis made my research twice as fast. InfraOne's mock interviews gave me the confidence to crack my analyst role.”



Aryan Verma

Research Analyst @ ISOURCE



“I joined to understand data-driven hiring. The cohort taught me dashboarding and analytics I now use daily to track pipelines. The instructors were patient with non-tech folks like me — that made all the difference.”



Shubhadeep Nandi

Talent Acquisition @ Prokatchers



“From Excel basics to AI-assisted analysis workflows in twelve weeks. The pace was intense but structured. What I valued most was detailed feedback on every assignment — it never felt like a recorded course.”



Utkarsh Sinha

Research Analyst @ Authentix

ADMISSIONS

Reserve your seat for the **GenAI batch**

SEAT RESERVATION

LIMITED SEATS PER COHORT

GenAI Bootcamp

₹34,999 ~~₹39,999~~

SAVE 13%

Launch offer · Next batch starts soon

AT A GLANCE

Duration 90 days

Format Live cohort

Commitment 48 lectures · 144 hrs

WHAT'S INCLUDED

- ✓ 90 days of live classes
- ✓ Resume + interview prep
- ✓ LMS + session recordings
- ✓ 14+ hands-on GenAI builds
- ✓ GitHub & portfolio guidance
- ✓ Certificate on completion

[Reserve Your Seat →](#)

[Join Free Webinar](#)

GOOD TO KNOW

Is this bootcamp beginner-friendly?

Best suited to learners with basic Python or programming knowledge. No prior experience with RAG, agents, MCP or LLM evaluation needed.

Do I need an expensive GPU laptop?

No. Practical work runs in InfraOne AI Labs and relevant cloud/model environments, so expensive local hardware is not required.

What will I build during the program?

RAG assistants, AI research agents, multi-agent workflows, Text-to-SQL applications, MCP integrations and a flagship autonomous-agent capstone.

Is this mainly a prompt engineering course?

No. Prompting is one part. You also learn retrieval, RAG, tool calling, agents, MCP, evaluation, reliability and production workflows.

Will I get recordings and mentor support?

Yes — live classes, LMS recordings, mentor guidance, project feedback and learner support throughout the program.

Certificate and career support?

Complete the required milestones and capstone for an InfraOne certificate, plus portfolio, resume, interview guidance and job placement assistance.

Build more than **demos.**

Spend 90 days building RAG systems, AI agents, MCP integrations and a flagship GenAI capstone you can actually show, explain and improve.

[Apply for GenAI Bootcamp →](#)[Download brochure](#)

PROGRAM PAGE

[infraone.ai/school-of-ai/
genai-bootcamp](https://infraone.ai/school-of-ai/genai-bootcamp)

NEXT STEPS ON

**WhatsApp / email
after you apply**

SEATS

**Limited per cohort
Filling fast**