Agentic AI Developer Program - Course Outline

Program Duration: 6 Months (24 Weeks)

Schedule: 4 Days/Week (Tue-Fri), 10-5 PM IST, 5 Hours/Day + Discussion

Format: Live "Learn-Build-Socialise" Sessions + Lifetime Access

Target Audience: BTech Graduates/Dropouts, Class 12th Passed (Basic Programming), Working Professionals

Certification: Agentic AI Developer Certificate

Start Date: Yet to be decided (20 Seats Only)

📚 Program Structure

Daily 5-Hour Flow (All Weeks)

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HOUR 1: Agent Huddle & Demo (Peer code review + progress sharing)
HOUR 2: Core Concept Theory (Live architecture whiteboarding)
HOUR 3: Guided Lab (Follow-along coding implementation)
HOUR 4: Collaborative Sprint (Agent roleplay + logic puzzles)
HOUR 5: Creative Play & Push (Capstone work + Git commits)
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Days 1-3: AI Core Development (Agentic workflows, frameworks)

Day 4: DSA + Interview Preparation (Technical + Behavioral)

📅 Detailed 24-Week Curriculum

MONTH 1: Quick Win Phase – No-Code Automation

Goal: Build functional AI agents immediately

Week	Days 1-3: AI Core	Day 4: DSA + Interview Prep
1	Generative AI foundations Frontier LLMs (capabilities/limits)	Variables, string operations GitHub profile setup
2	Graphical workflow tools Event-driven triggers + nodes	Loops for JSON parsing LinkedIn professional profile
3	API integrations Cloud spreadsheets + messaging	JSON data structures Professional networking basics
4	**Capstone 1**: Web form → Spreadsheet → Bot alert	Portfolio documentation Readme writing best practices

MONTH 2: AI Developer's Web Stack

Goal: Custom programming-based AI interfaces

Week	Days 1-3: AI Core	Day 4: DSA + Interview Prep	
5	Tool schema design Communication protocols	Lists, Tuples	Portfolio website setup
6	Web fundamentals AI chat UI (HTML/CSS/JS)	Dictionaries	Personal branding online
7	Secure APIs + Backend frameworks Third-party integrations	Nested data structures	Project showcase optimization
8	**Capstone 2**: Sentiment analysis web app	Data structure complexity	Technical blog writing

MONTH 3: Deep Dive – Reasoning & Knowledge Retrieval

Goal: Master agent reasoning + proprietary knowledge

Week	Days 1-3: AI Core	Day 4: DSA + Interview Prep	
9	ReAct reasoning architecture Tree-of-Thought patterns	Searching algorithms	RAG analogy explanations
10	Vector databases Similarity search logic	Sorting algorithms	Time complexity analysis
11	Native agent APIs Conversation threads + tools	Binary search	Technical communication
12	**Capstone 3**: "Chat with Documents" RAG agent	Big-O notation	Mock whiteboard interviews

MONTH 4: Frameworks & Orchestration Patterns

Goal: Multi-agent orchestration mastery

Week	Days 1-3: AI Core	Day 4: DSA + Interview Prep	
13	Agent framework landscape LangGraph vs enterprise stacks	Graphs (nodes/edges)	Framework comparison talks
14	State management + persistence Thread orchestration	Graph traversal	Behavioral interviews
15	Agentic search tools Multi-answer processing	Cycles detection	Problem-solving frameworks
16	**Capstone 4**: Multi-agent research system	Graph applications	Live coding practice

MONTH 5: Professional AgentOps & Governance

Goal: Production-ready enterprise agents

Week	Days 1-3: AI Core	Day 4: DSA + Interview Prep	
17	Observability + tracing Cost tracking platforms	System Design basics	Mock technical interviews
18	Security: Prompt injection defense Tool misuse prevention	OOP principles	Debugging under pressure
19	Human-in-the-Loop workflows Approval systems	Class design	Live failure analysis
20	**Capstone 5**: Enterprise Data Analyst (HITL)	Inheritance/polymorphism	High-pressure scenarios

MONTH 6: Grand Finale – Major Team Project

Goal: Production-grade team project + career launch

Week	Days 1-3: AI Core	Day 4: DSA + Interview Prep	
21	Team project proposal Deep Research Agent/Newsletter	Pandas data manipulation	Job search strategy
22	Sprint 1: Backend reasoning + vector storage	Data analysis libraries	Resume optimization
23	Sprint 2: Multi-agent + front-end	Advanced Excel automation	Company-specific prep
24	Demo Day + Cost optimization **Final Portfolio**	Credential claiming	100+ recruiter intros

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🎯 Capstone Projects (Your Hiring Portfolio)

1. **Capstone 1**: Web form → Spreadsheet → Bot automation

2. **Capstone 2**: Full-stack sentiment analysis web app
3. **Capstone 3**: RAG "Chat & Talk with Documents" agent
4. **Capstone 4**: Multi-agent research coordination system
5. **Capstone 5**: Enterprise Data Analyst (HITL approval)
6. **Capstone 6**: Team production project (Research/Newsletter)

All projects → GitHub with professional READMEs → Your resume

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📋 Prerequisites & Requirements

Who Can Join:

- ✅ BTech Graduates/Dropouts (any branch)
- ✅ Class 12th Passed + Basic Programming
- ✅ Working Professionals (upskilling)
- ✅ Tier 2/3 City talent (100% In person)

Technical Requirements:

• Laptop: 8GB RAM minimum
• Internet: Stable 10Mbps+
• Free accounts: GitHub, cloud platforms
• Programming: Basic Python/JS knowledge

📈 Career Outcomes

Target Roles: AI Engineer, Agent Developer, RAG Specialist, AI Automation Specialist
Salary Progression:

Fresher	2-5 Years	Senior
₹3-10 LPA	₹12-20 LPA	₹30-55+ LPA

Top Recruiters: Infosys, TCS, Wipro, Microsoft, Google, Zoho, startups

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💰 Schedule

Schedule: Yet to be decided
Daily: Mon-Thu, 10AM-5 PM IST
Includes: lifetime Material access, career support, Alumni Network

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🎓 Certification & Support

You'll Receive:

- **Agentic AI Developer Certificate**
- **LinkedIn Skills Badge**
- **6 Project Portfolio**
- **Lifetime Course Material Access**
- **1:1 Mentorship**

Career Services:

- Mock interviews (technical + behavioral)
- Resume reviews
- GitHub portfolio optimization
- Company-specific preparation
- Live debugging practice

Enrollment: 20 seats
