AIShift

Complete Curriculum 3-Month AI/Vibe Coding Journey

A comprehensive program designed to transform you into an AI-powered developer who builds projects 10x faster using AI across the entire SDLC.

AIShift

Program Structure

Complete 3-Month Learning Path From foundational AI coding to advanced specializations, each month builds upon the previous to create a comprehensive learning journey.

100+	**33+**	**8**	**10x**
Total Lectures	Hours Video Content	Core Modules	Faster Development

M1 Foundation

AI/Vibe Coding Mastery

- AI Coding Mindset
- AI Coding Tools
- AIShift Velocity Framework*
- MVP Development
- Python Fundamentals

M2 Advanced

LLM & Generative AI Development

- Build LLM Products
- Multi-Modal Chatbots
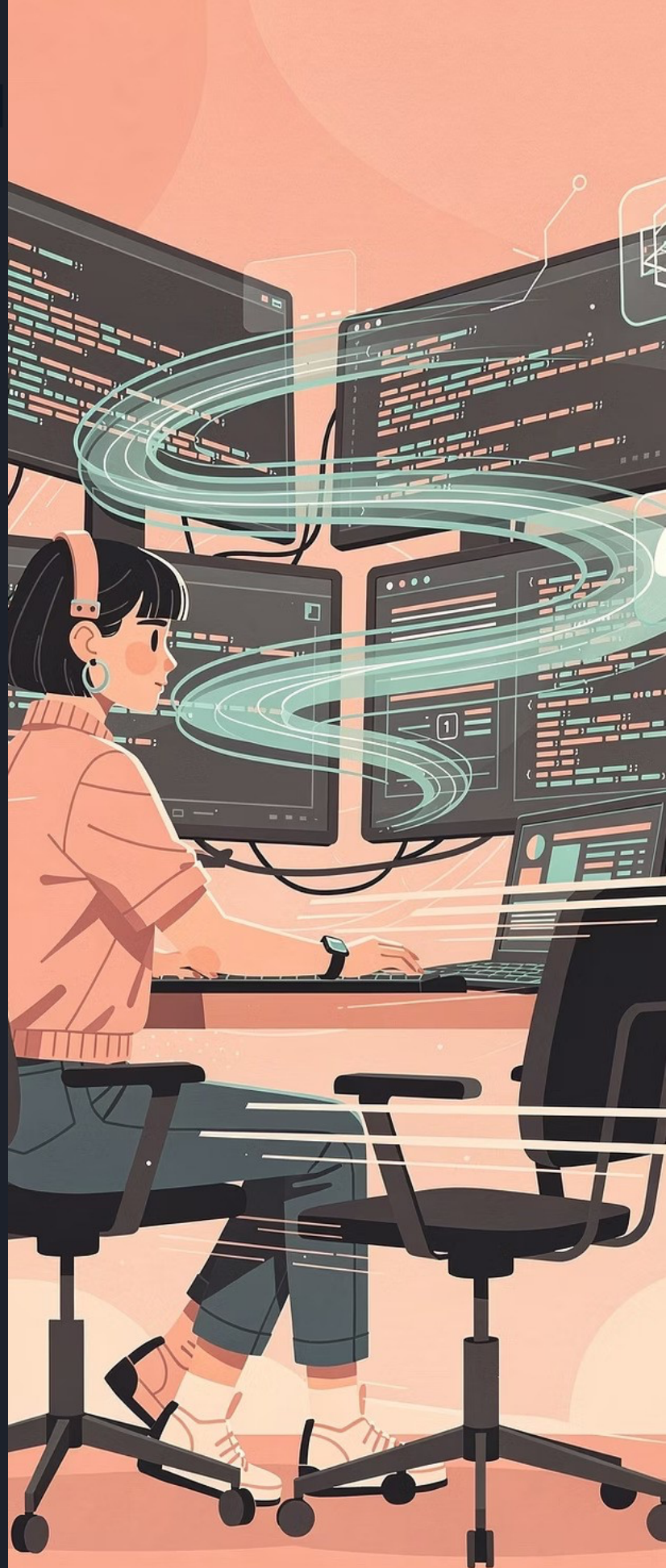- Open-Source Gen AI
- LLM Evaluation

M3 Specialization

RAG, Fine-tuning & AI Agents

- Mastering RAG
- Fine-tuning LLMs
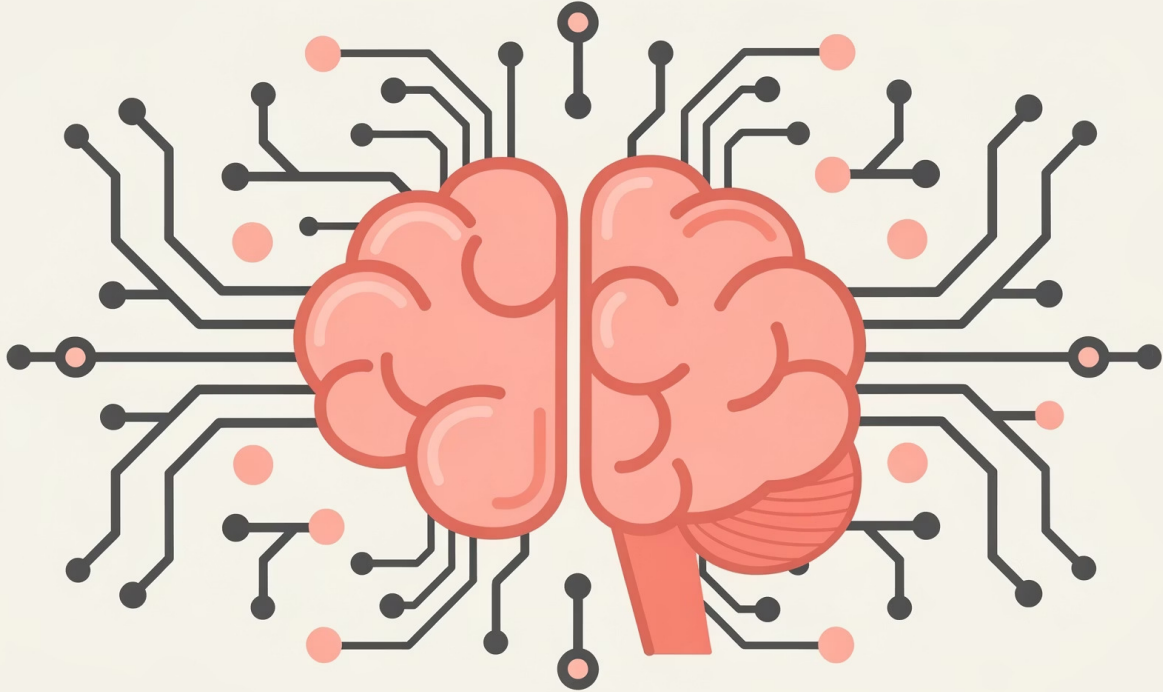- Multi-Agent Systems
- Real Client Projects
- Job Placement

AI/Vibe Coding Foundation

Transform from traditional coding to AI-accelerated development. Learn to use AI tools across the entire SDLC and build projects at 10x speed.

AI Coding Mindset

Develop the mental models required for AI-augmented development and learn to think at a higher level of abstraction.

Understanding AI capabilities and limitations	**Prompt engineering fundamentals**
AI-first development approach	**Breaking traditional coding patterns**

AI Coding Tools

Master the ecosystem of AI coding tools including ChatGPT, Claude, Cursor, Windsurf, and more.

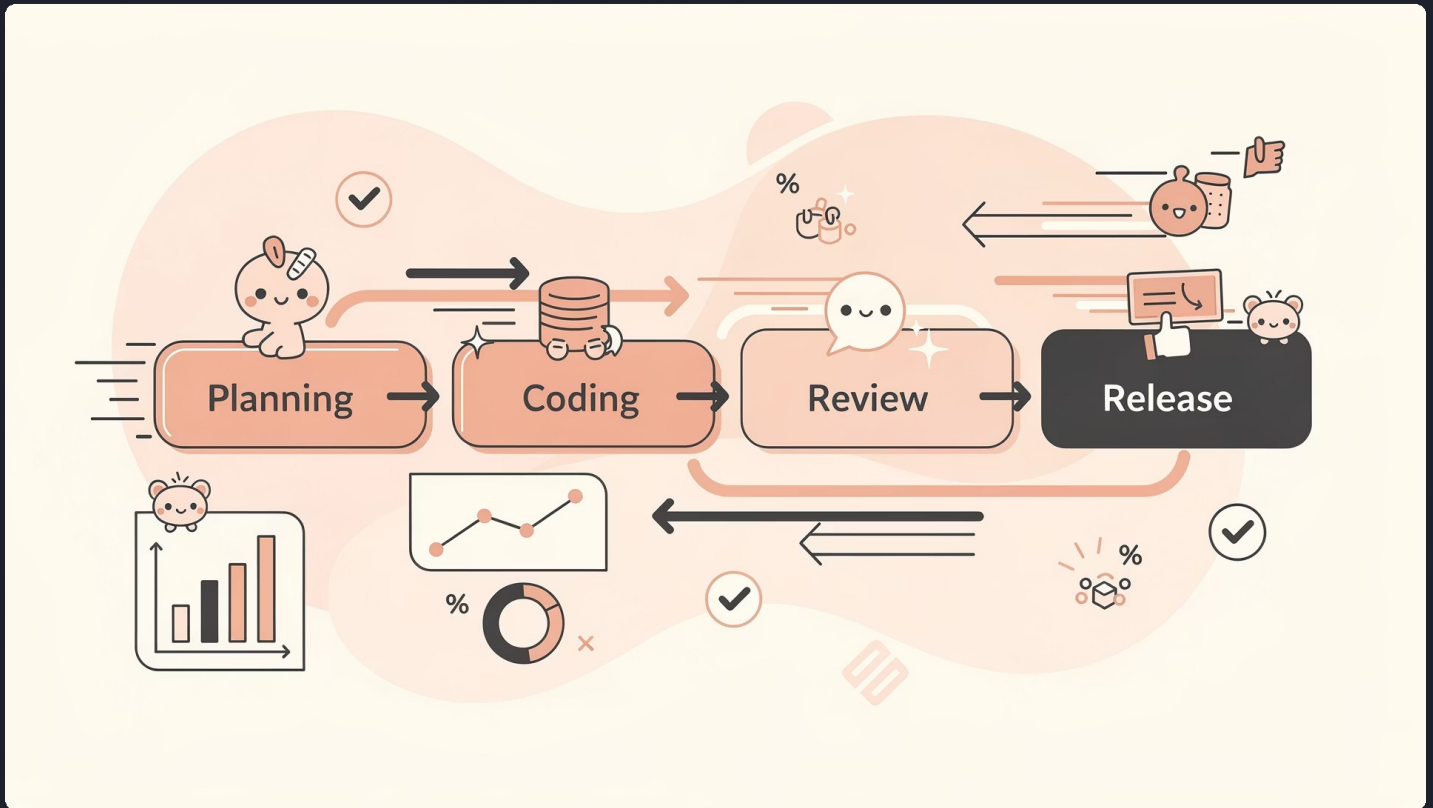**ChatGPT for architecture & debugging**

Claude for code review & refactoring

Cursor as your AI-powered IDE

When to use which tool

AIShift

AIShift Velocity Framework*

Our battle-tested methodology that delivers 5x-10x productivity gains in real-world development scenarios.

Requirements analysis with AI

AI-assisted architecture design

Rapid prototyping workflows

Automated testing strategies

MVP Development

Build complete minimum viable products in hours instead of weeks using AI-powered development.

- **Rapid scaffolding with AI**
- **Feature implementation at speed**
- **AI-generated tests & documentation**
- Deployment automation

Python Fundamentals

Master Python programming accelerated by AI tools for rapid learning and application.

Python syntax & data structures

Object-oriented programming

Working with APIs & libraries

AI-assisted debugging

MONTH 2

8-Week Advanced AI Curriculum

Comprehensive weekly modules covering everything from LLM products to autonomous AI agents 4 all built using AI/Vibe coding methodology.

Weeks 1-2: LLM Products & Chatbots

Build Your First LLM Product

36 lectures | 3 hr 3 min

Exploring top LLM models including GPT-4, Claude, and Gemini. Learn to integrate these models into real applications, understand API usage, and build your first production-ready LLM product.

Build a Multi-Modal Chatbot

23 lectures | 3 hr 33 min

Create sophisticated chatbots using LLMs, Gradio UI, and AI agents. Learn to handle text, images, and voice inputs while building engaging conversational interfaces.

Weeks 3-4: Open-Source & Evaluation

Open-Source Gen AI

23 lectures | 3 hr 36 min

Master HuggingFace ecosystem and build automated solutions using open-source generative AI models. Learn to leverage community models and contribute to the ecosystem.

LLM Showdown

23 lectures | 3 hr 9 min

Evaluate and compare different LLM models for code generation and business tasks. Learn benchmarking, performance testing, and making informed model selection decisions.

Weeks 5-8: Advanced Techniques

01

Mastering RAG

32 lectures | 5 hr 25 min

Build advanced Retrieval-Augmented Generation solutions with vector embeddings. Master semantic search, document processing, and context-aware AI applications.

02

Fine-tuning Frontier LLMs

27 lectures | 4 hr 47 min

Master LoRA and QLoRA techniques for efficient fine-tuning of large language models. Learn to customize models for specific domains and use cases.

03

Fine-tuned Open-Source Model

24 lectures | 4 hr

Create a fine-tuned open-source model that competes with frontier models. Learn advanced training techniques and model optimization strategies.

04

Autonomous Multi-Agent System

21 lectures | 3 hr 3 min

Build sophisticated multi-agent systems where AI agents collaborate autonomously. Learn agent orchestration, task delegation, and complex workflow automation.

MONTH 3

Specialization & Real-World Application

Master advanced techniques, work on real projects with actual clients, and prepare for job placement at partner companies.

Real Client Projects

Work on actual business problems for real clients using AI/Vibe coding methodology.

- Client requirement analysis
- Solution architecture & design
- Rapid development & iteration
- Client presentation & delivery

Advanced RAG Systems

Build production-grade RAG applications with sophisticated retrieval and generation capabilities.

- Advanced vector databases
- Hybrid search strategies
- Context window optimization
- Performance tuning

LLM Fine-tuning

Master advanced fine-tuning techniques for creating specialized, domain-specific models.

- Dataset preparation & curation
- Training pipeline setup
- Model evaluation & validation
- Deployment optimization

Multi-Agent Systems

Design and implement sophisticated systems where multiple AI agents work together autonomously.

- Agent design patterns
- Inter-agent communication
- Task orchestration
- Failure handling & recovery

Job Placement Preparation

Comprehensive preparation for interviews and placement at partner companies.

- Resume & portfolio building
- Technical interview prep
- Mock interviews & feedback
- Soft skills development

Capstone Project

Demonstrate your mastery by building a complete AI-powered application from scratch.

- End-to-end project development
- Full SDLC with AI tools
- Production deployment
- Project presentation

Skills & Expertise

What You'll Master: Comprehensive skill set that makes you a future-ready AI developer

AI Coding

Python

LLM Development

Chatbots

RAG Systems

Fine-tuning

AI Agents

MVP Development

Full-Stack Dev

Cloud Deployment

AI Testing

10x Productivity

Gain practical experience by building production-ready AI applications