

Course Name : VIBE CODING IN A DAY
Duration : 1 Day (Physical Classroom / Virtual Live Instructor)
Skill Level : Beginner

COURSE DESCRIPTION:

Vibe Coding: Create Apps with AI and Replit is a hands-on, beginner-friendly course designed to help you build your first AI-powered app using the powerful Replit platform. In this one-day workshop, you'll learn the fundamentals of Vibe Coding—an innovative approach that leverages AI to assist you in developing, testing, and refining your applications. Whether you're new to coding or looking to explore the possibilities of AI in app development, this course provides all the tools and guidance you need to get started.

Throughout the day, you will work on practical projects, including building interactive apps and integrating AI features that enhance functionality and user experience. You'll discover how to use Replit's collaborative coding environment to streamline your development process, troubleshoot with AI assistance, and deploy your applications with ease. By the end of the course, you'll have the skills to create real-world apps with AI and Replit—empowering you to build smarter applications in less time.

WHAT WILL YOU LEARN?

In this course, you will learn how to harness the power of AI and Replit to build your own applications from scratch. You'll discover the fundamentals of Vibe Coding, including how to collaborate with AI to streamline coding tasks, debug, and enhance your app's functionality. You will gain hands-on experience in developing real-world projects, such as interactive apps with integrated AI features, and learn how to deploy your applications on the Replit platform. By the end of the course, you'll have the skills to create efficient, AI-powered apps and confidently navigate the app development process using Replit.

PREREQUISITE:

Beginners. No programming experience is required.

METHODOLOGY:

This program will be conducted with interactive lectures, PowerPoint presentations, discussions, and practical exercises. This course can be conducted as instructor-led (ILT) or virtual instructor-led training (VILT).

JOB SCOPE:

Upon completion of this course, candidates may pursue the following career paths:

- AI Application Developer
- AI Software Engineer
- Full Stack Developer (AI Integration)
- App Developer with AI Specialization
- Machine Learning Engineer
- Replit Developer
- AI Solutions Architect
- Software Developer (AI-Powered Apps)

MODULE 1: INTRODUCTION TO VIBE CODING AND AI CODING AGENTS

- Welcome
- Overview of vibe coding and the role of AI agents
- Introduction to the Replit environment
- Discussion of the benefits and challenges of using AI agents in coding

MODULE 2: PRINCIPLES OF AGENTIC CODE DEVELOPMENT

- Key concepts: precision, task breakdown, and prompt refinement
- Structuring projects for AI assistance
- Debugging strategies with AI collaboration
- Interactive Q&A session

MODULE 3: BUILDING YOUR FIRST APPLICATION: SEO ANALYZER

- Step-by-step guide to creating a product requirement document (PRD)
- Wireframing and defining key features for an SEO analyzer
- Using Replit to build and prototype with the AI agent
- Hands-on activity: Participants will start creating their first app

MODULE 4: ENHANCING YOUR APP: UI CUSTOMIZATION AND DEBUGGING

- Using the AI agent to enhance the SEO analyzer's UI
- Customizing the application with screenshots and prompts
- Debugging with AI assistance
- Hands-on activity: Participants will refine their apps

MODULE 5: BUILDING A VOTING APP: NATIONAL PARK RANKING

- Introduction to persistent data storage and voting features
- Step-by-step creation of a national park ranking app
- AI collaboration for building and integrating features
- Hands-on activity: Building a functional voting app

MODULE 6: FINAL REFINEMENTS & DEPLOYMENT

- Integrating a complete dataset into the voting app
- Refining and testing the application
- Deploying the app for others to use and test
- Hands-on activity: Deploying and sharing apps

MODULE 7: NEXT STEPS AND BEST PRACTICES FOR EFFECTIVE VIBE CODING

- Recap of key takeaways
- Best practices for future projects
- Q&A and resources for further learning