



AI Associate for Aspiring Tech Professionals

12 WEEKS PROGRAM

ABOUT CPI

Established in 1996, **CPI TECHNOLOGIES** is a global IT education and consulting firm, providing top-tier services to a diverse clientele. Our consulting services cover managed networks, Artificial Intelligence and Machine Learning, Data Analytics, Cybersecurity, Cloud Computing, Digital Marketing, and Web/Mobile Application Development. We are known for delivering personalized and expert services to both individuals and corporate clients, utilizing best-in-class technologies.

Our partnerships with industry leaders ensure world-class delivery by our highly experienced and certified IT professionals.



Course Description:



AI Associate for Aspiring Tech Professionals is a 12-week, immersive, project-based training program designed to equip aspiring tech professionals with the skills to develop, build, and deploy AI-powered mobile applications. The course starts with a solid foundation in Python programming, progresses to applying AI tools and techniques to solve real-world problems, and culminates in building and publishing fully functional mobile apps to the App Store and Google Play Store.

This course meets the training requirements for the i3Cert Certified AI Associate exam and ensures graduates leave with not just knowledge—but a live, portfolio-ready AI application published on mobile platforms.

Who Should Enroll?

This course is suitable for everyone, especially:

- Beginners with little to no coding experience
- Students or recent graduates pursuing a tech or AI career
- Career switchers ready to dive into software development and AI
- Innovators and entrepreneurs interested in building intelligent mobile apps
- Junior developers seeking to upskill and earn a globally recognized AI certification

Course Objectives

By the end of this course, learners will be able to:

- Write and debug Python code using modern tools and best practices.
- Understand and apply artificial intelligence (AI) and machine learning (ML) principles.
- Build intelligent Python applications that leverage AI capabilities.
- Transform AI-based Python projects into mobile applications.
- Deploy at least one complete AI-powered application on both the App Store and Google Play Store.
- Meet the technical requirements and pass the i3Cert Certified AI Associate exam.



Pre-Requisite

AI Essential certification

Course Structure and Weekly Breakdown

Part 1: Python Programming Mastery (Weeks 1–4)

Master the Python language as the foundation for all future AI and app development work.

Topics Covered:

- Python syntax and logic
- Functions, loops, conditionals, and error handling
- Object-Oriented Programming (OOP)
- Working with APIs and external libraries
- Version control with Git and GitHub

Project:

Build a mini productivity or utility app (e.g., task manager or expense tracker)

Part 2: AI-Powered Python Application Development (Weeks 5–8)

Apply AI concepts and libraries to enhance applications with machine intelligence.

Topics Covered:

- AI vs. ML vs. Deep Learning: Core concepts
- Data preprocessing and model training (using Scikit-learn and TensorFlow)
- Introduction to NLP, image recognition, and computer vision
- Integrating generative AI APIs (OpenAI, Hugging Face, etc.)
- Voice and text-based AI interfaces
- Working with AI APIs and prompt engineering

Project:

Build an AI chatbot, sentiment analyzer, or image classifier
Prepare AI modules for mobile integration

Part 3: App Development & Deployment (Weeks 9–12)

Build, package, and publish your AI-enhanced application for mobile platforms.

Topics Covered:

- Cross-platform mobile app frameworks (Flutter or React Native)
- UI/UX design principles and user authentication
- Connecting AI logic to the app frontend
- Backend storage and user data (Firebase, Supabase)
- App testing, optimization, and debugging
- App Store and Google Play deployment process

Capstone Requirement:

Each student must publish at least one working AI application on both the Apple App Store and Google Play Store as a requirement for course completion.

Course Objectives

The course includes comprehensive preparation for the i3Cert Certified AI Associate exam:

- Review sessions
- Practice questions and quizzes
- Mock exams and feedback

Tools & Technologies

The course includes comprehensive preparation for the i3Cert Certified AI Associate exam:

- Python, Scikit-learn, TensorFlow, OpenAI API
- Git, GitHub
- Firebase, Supabase, PostgreSQL
- Flutter / React Native / Kivy
- App Store Connect, Google Play Console

Graduation Deliverables

- Published AI-powered mobile app (iOS & Android)
- Capstone Project Presentation
- Certification Exam Readiness (i3Cert AI Associate)

Engr. Timothy Ugbaja

Chief Operating Officer, CPI Technologies Inc.

Engr. Timothy Ugbaja is a dynamic force in the global technology space, now serving as the Chief Operating Officer (COO) of CPI Technologies Inc., a trailblazing firm in IT training and enterprise technology solutions. With over 20 years of experience spanning artificial intelligence, DevOps, cloud architecture, machine learning, and quantum computing, Timothy brings to CPI a wealth of strategic insight, operational excellence, and visionary leadership.

A seasoned technologist and transformative educator, Engr. Ugbaja has left a significant imprint on both industry and academia. His instructional focus on AI, Machine learning, cloud computing, and software development laid the foundation for a generation of tech innovators.



Engr. Timothy Ugbaja

Chief Operating Officer CPI Education

Timothy's transition into executive leadership saw him serve as General Manager at Bellemem Nigeria Limited, where he spearheaded the integration of DevOps and AI-driven processes that catalyzed the company's growth and innovation trajectory. His strategic oversight elevated Bellemem as a formidable player in the tech sector, delivering agile solutions across industries.

As COO of CPI Technologies Inc., Engr. Timothy Ugbaja oversees global operations, partnerships, and technology strategy, driving the company's mission to equip individuals and organizations with the skills and tools needed to thrive in the AI-driven future.

His leadership style is defined by excellence, innovation, and a deep passion for empowerment through education. With Timothy at the helm of operations, CPI Technologies is poised for unprecedented growth and global impact.

Career & Job Opportunities

Graduates of this program can pursue roles such as:

- AI Developer / Engineer
- Python Developer
- Machine Learning Assistant
- AI Product Support Engineer
- Mobile App Developer with AI Integration
- AI Tech Startup Founder / Co-Founder
- Junior Data Scientist or Analyst