PROGRAM OVERVIEW
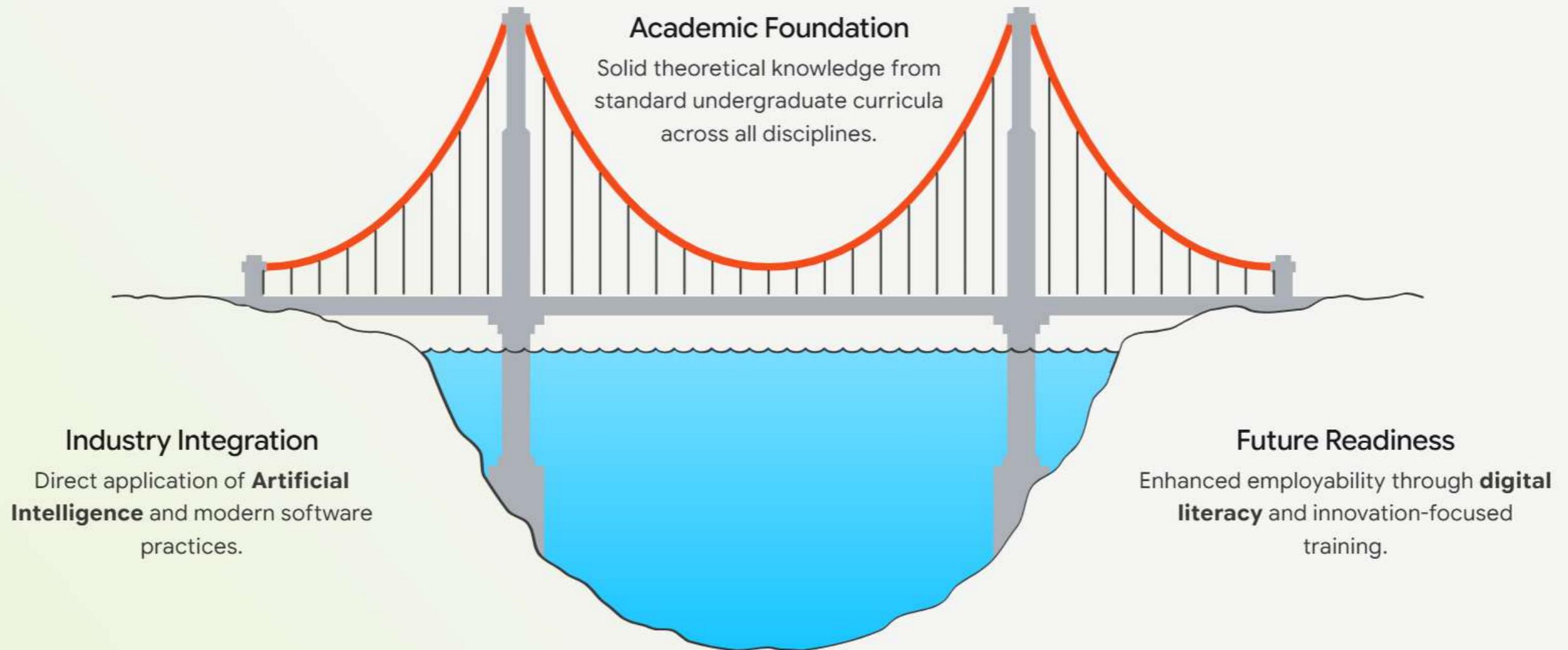
AI & Software Development Course

Institutional initiative for industry-aligned digital learning under NEP 2020 to bridge academia and industry

Affinity Infosoft

Affinity Infosoft
Presenter

Bridging Academia and Industry

A program designed as per UGC UGCF 2022 and NEP 2020 recommendations for undergraduate growth

Academic Foundation

Solid theoretical knowledge from standard undergraduate curricula across all disciplines.

Industry Integration

Direct application of **Artificial Intelligence** and modern software practices.

Future Readiness

Enhanced employability through **digital literacy** and innovation-focused training.

OBJECTIVES

Core Program Objectives

Empowering students with practical, future-ready skills and critical problem-solving abilities
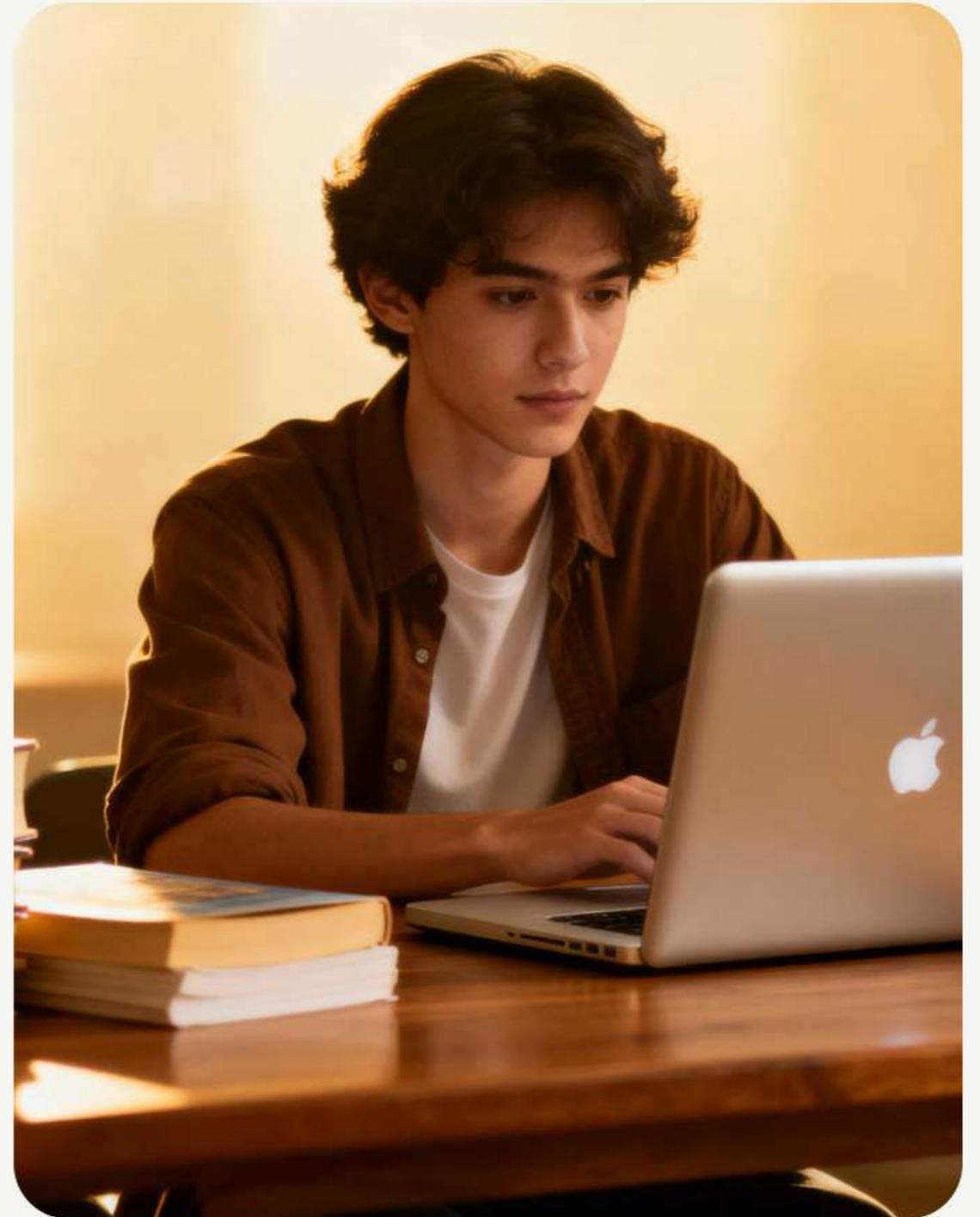

Practical skills

Critical thinking

Digital skills
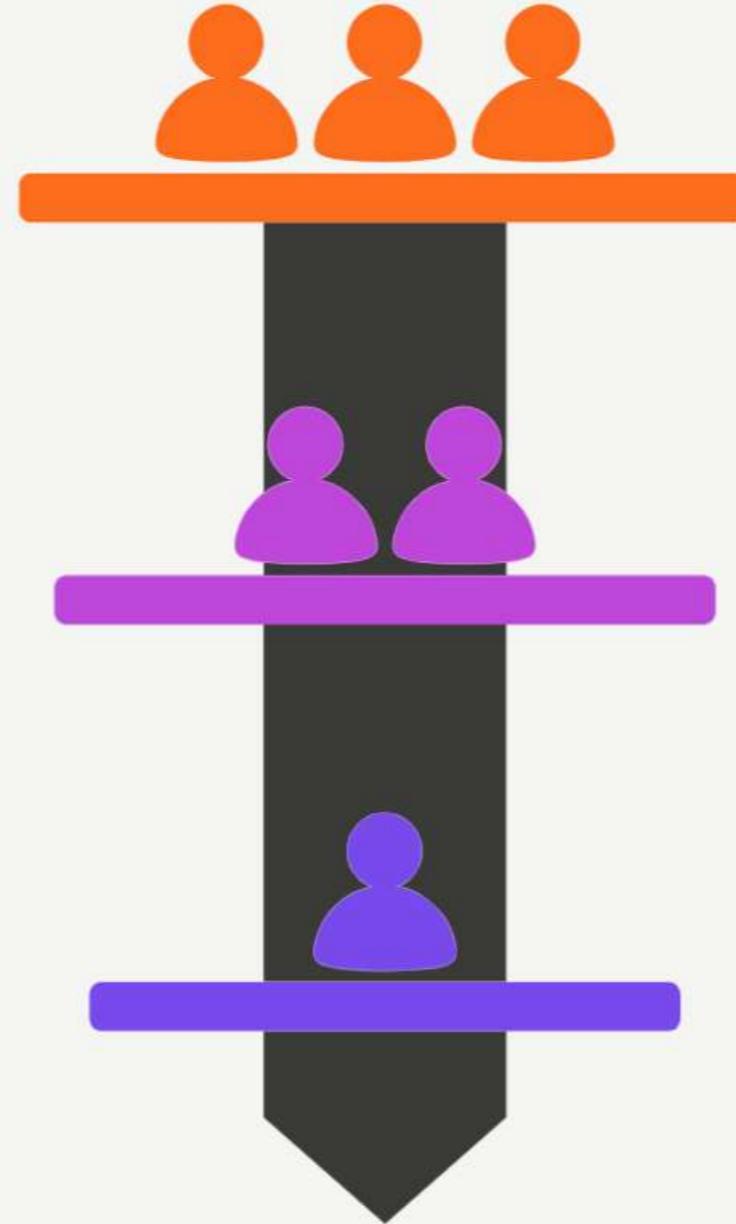
Academia–industry

Certifications

03

Course Pillars & Excellence

UGC-compliant 2-credit course structure featuring industry-integrated curriculum

UGC Compliant

Standardized 60-hour curriculum delivering **2 academic credits**.

Hands-on Training

Practical sessions with industry experts and real-world tools.

Joint Certification

Credential issued by the college and our industry partner.

Detailed Course Structure

Breakdown of the 60-hour instructional journey across four key units

Unit	Module Focus	Instruction Hours
Unit 1	Introduction to AI & Software Development	10
Unit 2	AI Tools & Frontend Development	15
Unit 3	Backend & Business Applications	15
Unit 4	Mini Project & Final Presentation	20

MODULE 1

Unit 1: Foundations of AI

Understanding the software development lifecycle and AI across sectors

AI Core Concepts

Applications of **AI** across global sectors Introduction to **programming logic** and algorithms Understanding **AI ethics** and responsible use
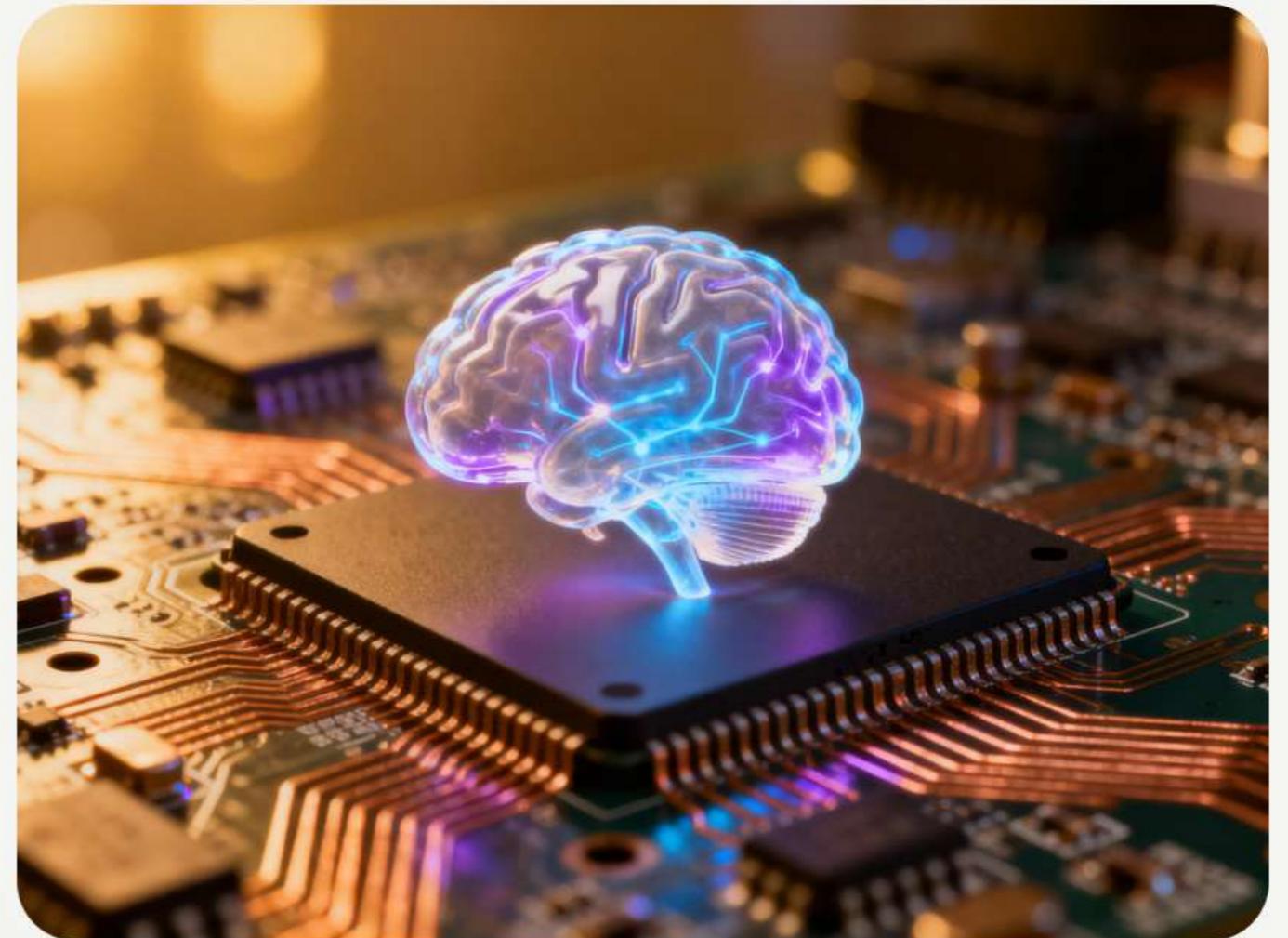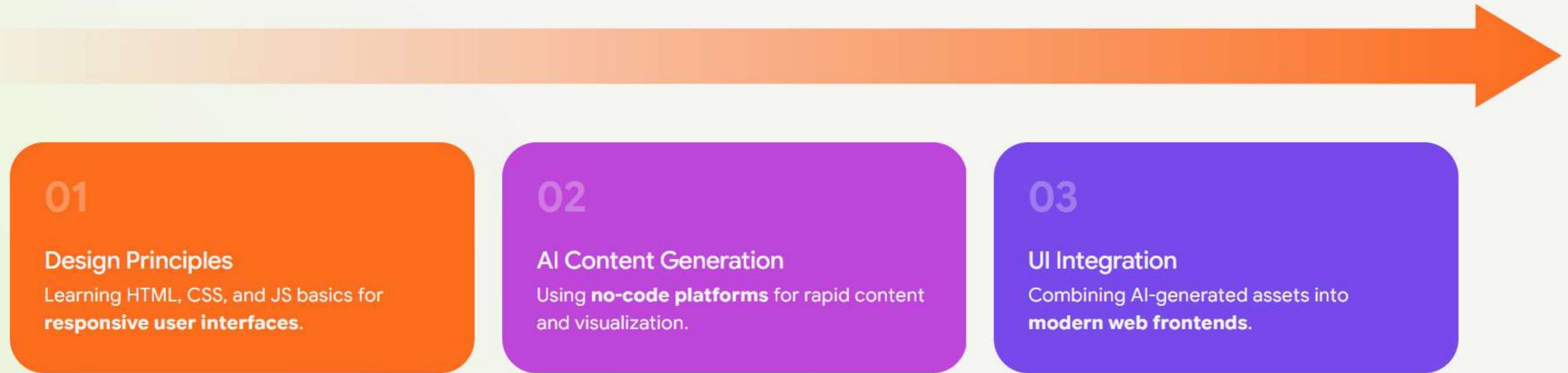
01

SDLC Fundamentals

Overview of the **Software Development Lifecycle** Transitioning from academic theory to **SDLC** practices Role of logic in software automation

02

Unit 2: Frontend & AI Tools

Mastering UI design principles and leveraging no-code AI platforms

01

Design Principles

Learning HTML, CSS, and JS basics for **responsive user interfaces**.

02

AI Content Generation

Using **no-code platforms** for rapid content and visualization.

03

UI Integration

Combining AI-generated assets into **modern web frontends**.

MODULE 3

Unit 3: Backend & Data

Building functional business applications with API integration and automation

Backend Engineering

Introduction to **databases** and data management
Server-side scripting with **Python Flask** or Node.js
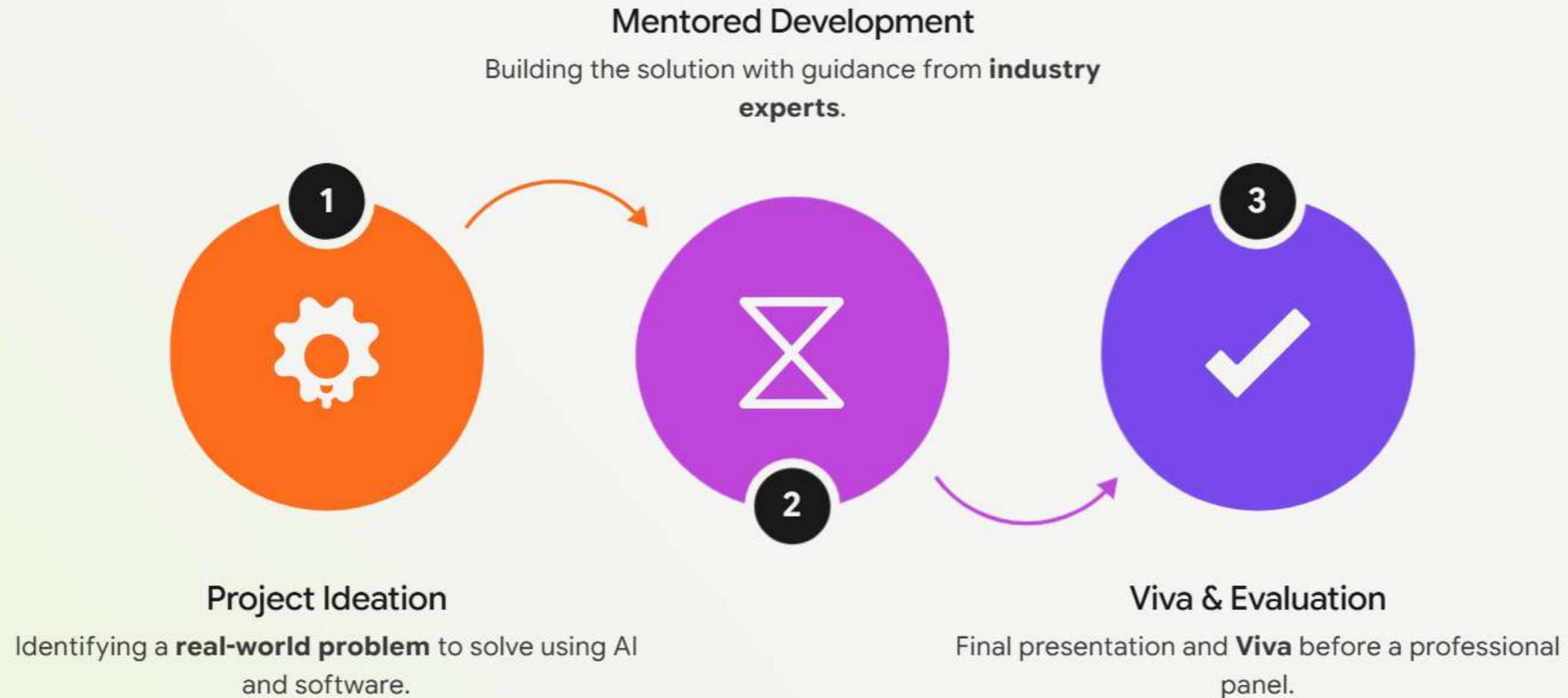Building robust **business applications**

01

AI & Automation

Data processing and **AI model deployment** basics **API integration** for automated workflows Scaling applications with AI-driven logic

02

Unit 4: The Mini Project

A culminating experience focused on innovation, usability, and problem-solving

Mentored Development

Building the solution with guidance from **industry experts**.

1

2

3

Project Ideation

Identifying a **real-world problem** to solve using AI and software.

Viva & Evaluation

Final presentation and **Viva** before a professional panel.

EVALUATION

Comprehensive Assessment

A multi-faceted evaluation pattern reflecting theory, practicals, and innovation
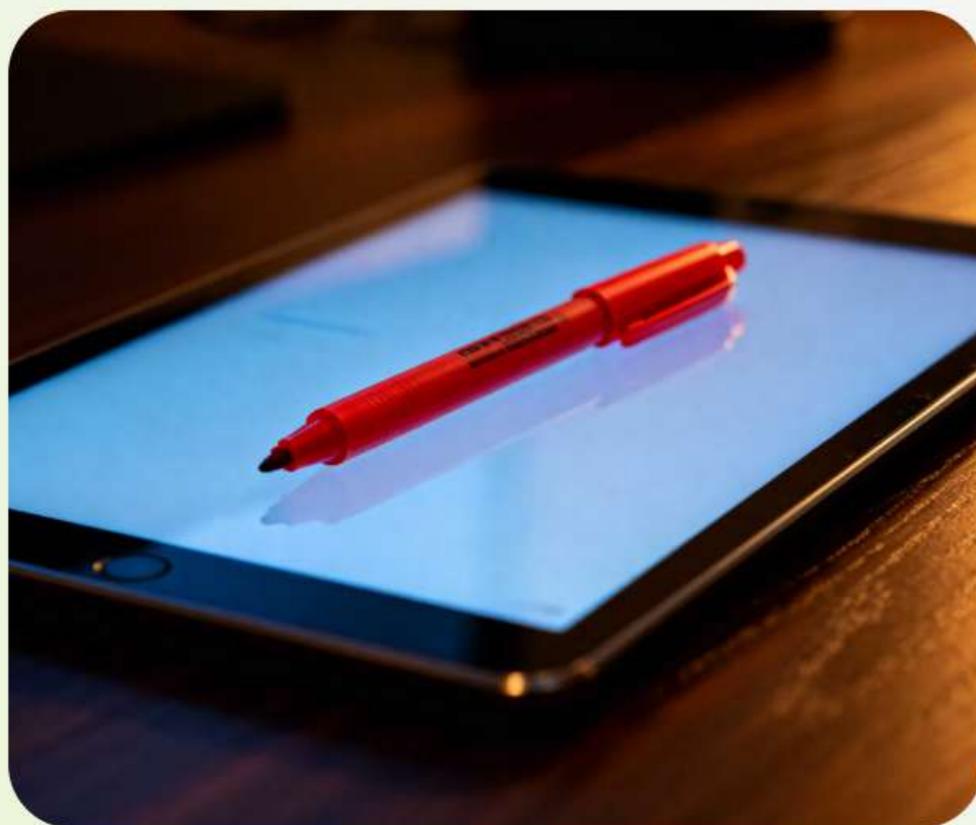
30%
Practical Work
Hands-on implementation and lab-based exercise performance.

25%
Mini Project
Core project development, problem-solving, and final output.

20%
Assignments
Regular modular assessments to track theoretical progress.

25%
Viva & Attendance
Combined oral evaluation (15%) and consistent presence (10%).

ENROLMENT

Admission Eligibility

Open to undergraduate students across all disciplines with no prior coding required

Open to all **B.A., B.Sc., and B.Com.** undergraduate students.

No prior coding experience required for the AI Track entry.

Basic **computer knowledge** recommended for the Software Track.

Designed specifically for **beginners** and interdisciplinary learners.

CERTIFICATION

Certification & Credits

Formal recognition for 60 hours of specialized industry-aligned training

2Credits

60Hours

CAREER

Future Career Pathways

HOT

AI and data analytics roles across industries: extracting insights, building models, and driving data-driven strategy in finance, healthcare, retail, and more.

Frontend and backend software development internships focused on building scalable web and mobile applications, API design, cloud deployment, and DevOps practices.

Business process automation and productivity specializations automating workflows, integrating systems, and optimizing operations using RPA, AI, and low...

Digital transformation roles in established organizations leading modernization initiatives, cloud migrations, and enterprise analytics to improve efficiency and...

Entrepreneurial startup projects leveraging AI innovation to develop product-market fit, prototype solutions, scale teams, and attract early customers and...

OUR VISION

Institutional Commitment

Fostering an innovation ecosystem and strengthening industry-academia ties

Innovation Ecosystem

Creating a dedicated space on campus where technology and creativity meet to solve problems.

Industry Collaboration

Deepening partnerships with tech leaders to ensure our curriculum remains cutting-edge.

21st-Century Skills

Promoting essential digital skills for students in every discipline, regardless of their major.

Join the Skill Revolution Today

Unlock AI and software innovation skills with hands-on training, expert mentors, and career-focused pathways—enroll now to transform your future.