

# Postgraduate Diploma

## Multiplatform Application Development using Artificial Intelligence



## Postgraduate Diploma Multiplatform Application Development using Artificial Intelligence

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/in/artificial-intelligence/postgraduate-diploma/postgraduate-diploma-multiplatform-application-development-artificial-intelligence](http://www.techtute.com/in/artificial-intelligence/postgraduate-diploma/postgraduate-diploma-multiplatform-application-development-artificial-intelligence)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 24*

06

Certificate

---

*p. 32*

# 01

# Introduction

The rise of IT technologies has enabled experts to improve their procedures by offering highly efficient services. For example, tools such as ChatGPT help professionals to optimize their code during programming. In this way, computer scientists regenerate the efficiency, performance and readability of programs, without changing their functionality. This brings a number of benefits, including faster application performance. This system also serves to reduce memory consumption, which will save costs in infrastructure and hardware resources. Faced with this reality, TECH has implemented a fully online program, aimed at improving productivity in software development with Artificial Intelligence (AI).





“

*A university program that will provide you with flexibility thanks to its 100% online format. TECH adapts to the schedules of busy professionals!”*

Combining the *backend* with Machine Learning is beneficial in a variety of contexts. In this way, programmers can automate highly repetitive tasks, such as extracting relevant information from large data sets. In the same vein, AI serves to boost application performance by predicting usage patterns, adjusting resource allocation and making real-time decisions to increase efficiency. This mechanism also uses recommendation algorithms to deliver personalized content to users who understand to users, including product or news suggestions based on their preferences.

Aware of its importance, TECH has developed a Postgraduate Diploma that will delve into the implementation of web projects using AI. Designed by a teaching staff specialized in this subject, the curriculum will provide advanced strategies for the creation of design patterns, databases and *workspace* spaces.

Likewise, the syllabus will encourage professionals to detect possible failures during their processes, in order to create unit tests. At the same time, the didactic contents will be oriented to both optimization and performance management, using state-of-the-art Machine Learning tools. In addition, graduates will design large-scale systems that will be used to store the most relevant data.

On the other hand, to strengthen the mastery of the syllabus, this university program applies the revolutionary *Relearning* teaching system, of which TECH is a pioneer. This promotes the assimilation of complex concepts through the natural and progressive reiteration of them. Similarly, the program is nourished by materials in various formats, such as infographics or explanatory videos. All this in a convenient 100% online modality, which allows each person to adjust their schedule to their responsibilities. All graduates need is an electronic device with Internet access.

This **Postgraduate Diploma in Multiplatform Application Development using Artificial Intelligence** contains the most complete and up-to-date educational program on the market. Its most notable features are:

- ♦ The development of case studies presented by experts in Multiplatform Application Development using AI
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*You will develop advanced strategies aimed at optimizing the deployment of your websites, responding quickly to market demands"*

“

*You will delve into machine translation between different programming languages, creating applications that work on a variety of platforms”*

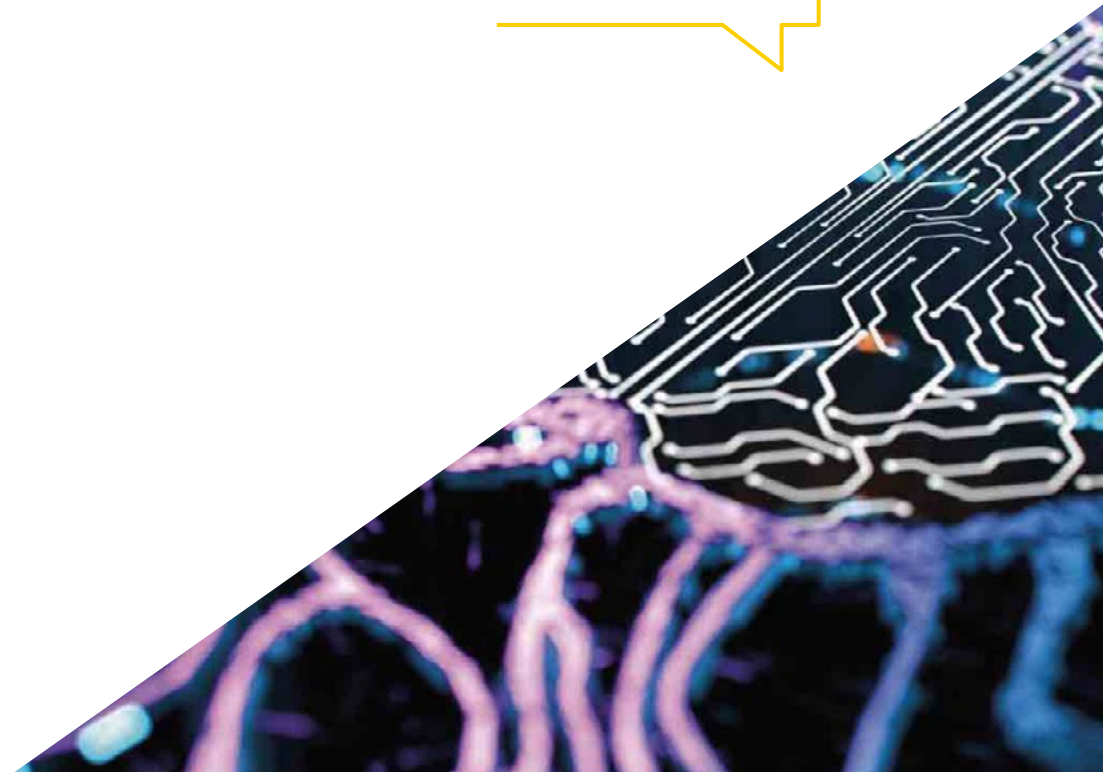
*You will implement Clean Architecture in your procedures, to make your software projects more maintainable, scalable and adaptable to future changes.*

*Thanks to the Relearning system used by TECH you will reduce the long hours of study and memorization.*

The program's teaching staff includes professionals from the sector who contribute their work experience to this program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.



02

Thanks to this Postgraduate Diploma, programmers will master the configuration of AI-optimized development environments to offer the most innovative solutions to institutions. They will also implement essential extensions to their projects, which will improve both productivity and software implementation. They will also apply ChatGTP techniques to their procedures, oriented to the automatic correction of possible code improvements. In addition, professionals will design scalable systems to handle large amounts of data. In addition, they will apply actions that will promote highly secure performances and avoid vulnerabilities, guaranteeing the security of the programs at the architectural level.



“

*You will effectively manage Artificial Intelligence tools to improve productivity in software development”*



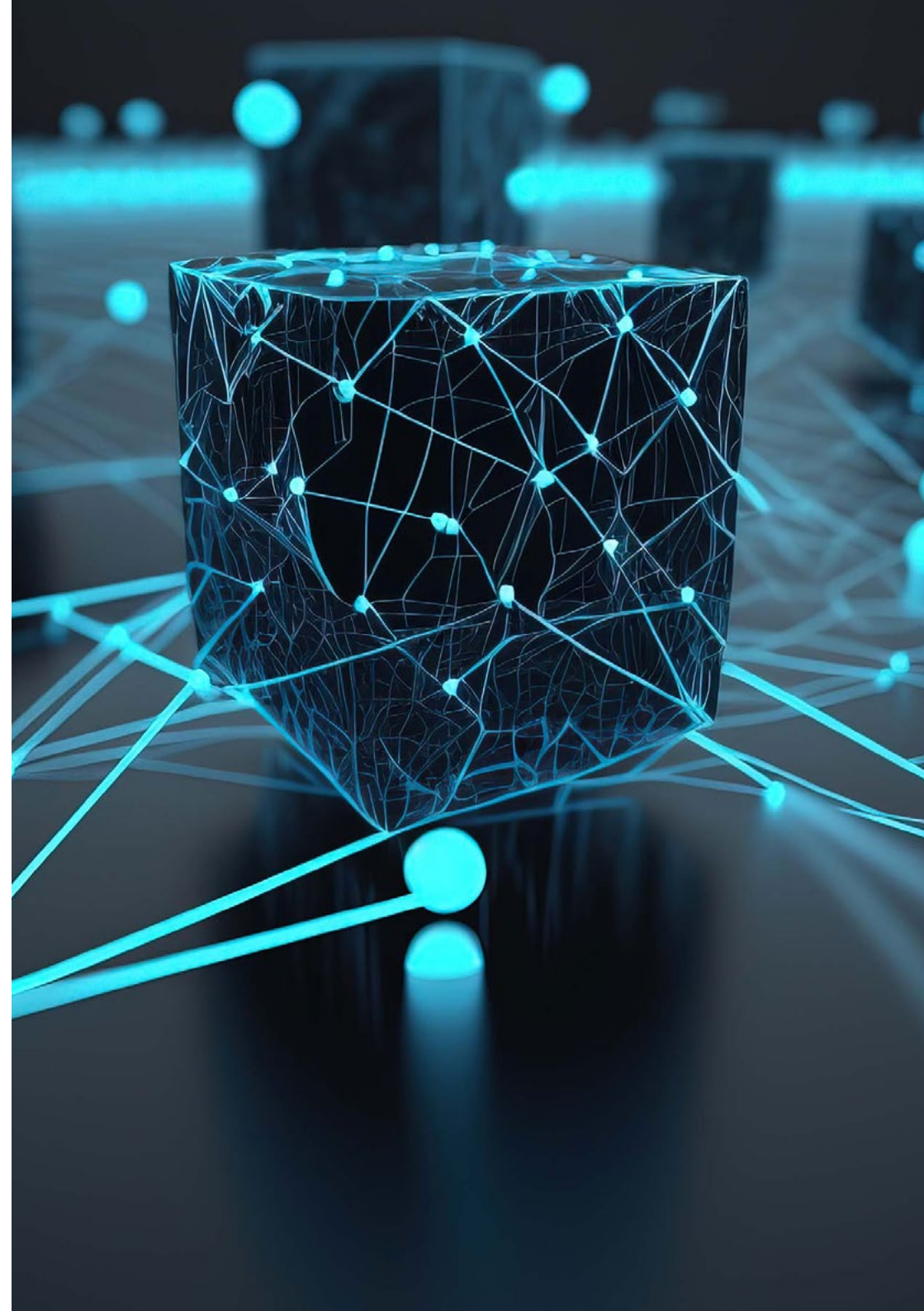
## General Objectives

---

- ♦ Develop skills to set up and manage efficient development environments, ensuring a solid foundation for the implementation of AI projects
- ♦ Acquire skills in planning, executing and automating quality tests, incorporating AI tools for *bug*detection and remediation
- ♦ Understand and apply performance, scalability and maintainability principles in the design of large-scale computing systems
- ♦ Become familiar with the most important design patterns and apply them effectively in *software* architecture



*A flexible university program, without fixed schedules and with content available 24 hours a day"*





## Specific Objectives

---

### Module 1. Improving Software Development Productivity with AI

- ♦ Delve into the implementation of must-have AI extensions in Visual Studio Code to improve productivity and facilitate *software* development
- ♦ Gain a solid understanding of basic AI concepts and their application in *software* development, including machine learning algorithms, natural language processing, neural networks, etc
- ♦ Master the setup of optimized development environments, ensuring that students are able to create environments conducive to AI projects
- ♦ Apply specific techniques using ChatGPT for automatic identification and correction of potential code improvements, encouraging more efficient programming practices
- ♦ Promote collaboration between different programming professionals (from programmers to data engineers to user experience designers) to develop effective and ethical AI *software* solutions

### Module 2. Web Projects with AI

- ♦ Develop comprehensive skills for the implementation of web projects, from *frontend* design to *backend* optimization, with the inclusion of AI elements
- ♦ Optimize the process of deploying websites, incorporating techniques and tools to improve speed and efficiency
- ♦ Integrate AI into cloud computing, enabling students to create highly scalable and efficient web projects
- ♦ Acquire the ability to identify specific problems and opportunities in web projects where AI can be effectively applied, such as in text processing, personalization, content recommendation, etc
- ♦ Encourage students to keep abreast of the latest trends and advances in AI for its proper application in web projects

### Module 3. AI-enabled Mobile Applications

- ♦ Apply advanced concepts of *clean architecture*, *datasources* and *repositories* to ensure a robust and modular structure in AI-enabled mobile applications
- ♦ Develop skills to design interactive screens, icons and graphical resources using AI to enhance the user experience in mobile applications
- ♦ Delve into mobile app framework configuration and employ *Github Copilot* to streamline the development process
- ♦ Optimize mobile applications with AI for efficient performance, taking into account resource management and data usage
- ♦ Perform quality testing of AI mobile applications, enabling students to identify problems and debug bugs

03

# Course Management

In its commitment to provide an education based on excellence, TECH has carefully selected a group of internationally renowned professionals. These experts in Artificial Intelligence in Programming have years of work experience, in which they have offered the most innovative solutions to renowned companies. Therefore, during this academic program, these teachers will offer the most effective tools for graduates to acquire new skills to optimize their computing practice. In this way, students will have the guarantees they need to specialize in a fast-growing digital sector with multiple professional opportunities.





“

*An experienced teaching group will guide you throughout the learning process and will resolve any doubts that may arise"*

## Management



### Dr. Peralta Martín-Palomino, Arturo

- ♦ CEO and CTO at Prometheus Global Solutions
- ♦ CTO at Korporate Technologies
- ♦ CTO at AI Shepherds GmbH
- ♦ Consultant and Strategic Business Advisor at Alliance Medical
- ♦ Director of Design and Development at DocPath
- ♦ Ph.D. in Psychology from the University of Castilla - La Mancha
- ♦ Ph.D. in Economics, Business and Finance from the Camilo José Cela University
- ♦ Ph.D. in Psychology from University of Castilla – La Mancha
- ♦ Master's in Executive MBA por la Universidad Isabel I
- ♦ Master's Degree in Sales and Marketing Management, Isabel I University
- ♦ Expert Master's Degree in Big Data by Hadoop Training
- ♦ Master's Degree in Advanced Information Technologies from the University of Castilla - la Mancha
- ♦ Member of: SMILE Research Group



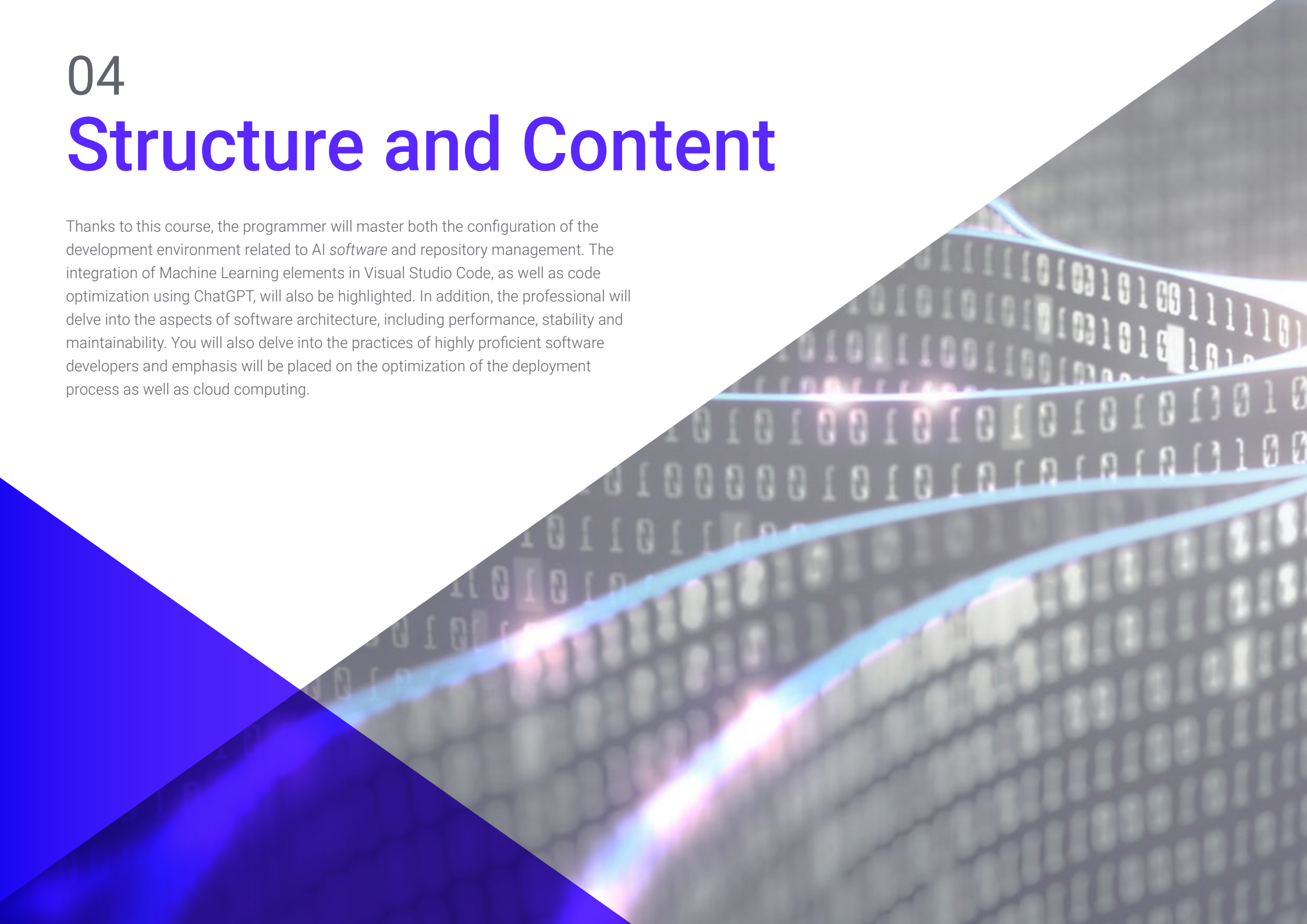
### **Mr. Castellanos Herreros, Ricardo**

- ♦ Specialist in Computer Systems Engineering
- ♦ *Chief Technology Officer* at OWQLO
- ♦ Freelance Technical Consultant
- ♦ Mobile Applications Developer for eDreams, Fnac, Air Europa, Bankia, Cetelem, Banco Santander, Santillana, Groupón and Grupo Planeta
- ♦ Web Developer for Openbank and Banco Santander
- ♦ *Machine Learning Engineer* course at Udacity
- ♦ Technical Engineer in Computer Systems from the University of Castilla la Mancha

# 04

## Structure and Content

Thanks to this course, the programmer will master both the configuration of the development environment related to AI *software* and repository management. The integration of Machine Learning elements in Visual Studio Code, as well as code optimization using ChatGPT, will also be highlighted. In addition, the professional will delve into the aspects of software architecture, including performance, stability and maintainability. You will also delve into the practices of highly proficient software developers and emphasis will be placed on the optimization of the deployment process as well as cloud computing.





“

*You will get a comprehensive view on the application of Artificial Intelligence in software development. And in as little as in 6 months!"*

## Module 1. Improving Software Development Productivity with AI

- 1.1. Prepare a Suitable Development Environment
  - 1.1.1. Selection of Essential Tools for AI Development
  - 1.1.2. Configuration of the Chosen Tools
  - 1.1.3. Implementation of CI/CD Pipelines Adapted to AI Projects
  - 1.1.4. Efficient Management of Dependencies and Versions in Development Environments
- 1.2. Essential AI Extensions for Visual Studio Code
  - 1.2.1. Exploring and Selecting AI Extensions for Visual Studio Code
  - 1.2.2. Integration of Static and Dynamic Analysis Tools in the SDI
  - 1.2.3. Automation of Repetitive Tasks with Specific Extensions
  - 1.2.4. Customization of the Development Environment to Improve Efficiency
- 1.3. No-code Design of User Interfaces with AI Elements
  - 1.3.1. No-code Design Principles and Their Application to User Interfaces
  - 1.3.2. Incorporation of AI Elements in the Visual Design of Interfaces
  - 1.3.3. Tools and Platforms for No-code Creation of Intelligent Interfaces
  - 1.3.4. Evaluation and Continuous Improvement of No-code Interfaces with AI
- 1.4. Code Optimization using ChatGPT
  - 1.4.1. Identifying Duplicate Code
  - 1.4.2. Refactor
  - 1.4.3. Create Readable Code
  - 1.4.4. Understanding What Code Does
  - 1.4.5. Improving Variable and Function Names
  - 1.4.6. Automatic Documentation Creation
- 1.5. Repository Management with AI
  - 1.5.1. Automation of Version Control Processes with AI Techniques
  - 1.5.2. Conflict Detection and Automatic Resolution in Collaborative Environments
  - 1.5.3. Predictive Analysis of Changes and Trends in Code Repositories
  - 1.5.4. Improved Organization and Categorization of Repositories using AI

```

mirror_mod.use_x = False
mirror_mod.use_y = True
mirror_mod.use_z = False
elif operation == "MIRROR_Z":
    mirror_mod.use_x = False
    mirror_mod.use_y = False
    mirror_mod.use_z = True

#selection at the end add back
mirror_ob.select=1
modifier_ob.select=1
bpy.context.scene.objects.active =
print("Selected" + str(modifier_ob)
    #mirror_ob.select = 1
    done = bpy.context.selected_objects
    bpy.data.objects[mirror_ob.name].select = 1

```

- 1.6. Integration of AI in Database Management
  - 1.6.1. Query and Performance Optimization Using AI Techniques
  - 1.6.2. Predictive Analysis of Database Access Patterns
  - 1.6.3. Implementation of Recommender Systems to Optimize Database Structure
  - 1.6.4. Monitoring and Proactive Detection of Potential Problems in Databases
- 1.7. Fault Finding and Creation of Unit Tests with AI
  - 1.7.1. Automatic Generation of Test Cases Using AI Techniques
  - 1.7.2. Early Detection of Vulnerabilities and Bugs using Static Analysis with AI
  - 1.7.3. Improving Test Coverage by Identifying Critical Areas with AI
- 1.8. Pair Programming with GitHub Copilot
  - 1.8.1. Integration and Effective Use of GitHub Copilot in Pair Programming Sessions
  - 1.8.2. Integration Improvements in Communication and Collaboration between Developers with GitHub Copilot
  - 1.8.3. Integration Strategies for Making the Most of Code Hints Generated by GitHub Copilot
  - 1.8.4. Integration Case Studies and Best Practices in AI-assisted Pair Programming
- 1.9. Automatic Translation between Programming Languages
  - 1.9.1. Programming Language Specific Machine Translation Tools and Services
  - 1.9.2. Adapting Machine Translation Algorithms to Development Contexts
  - 1.9.3. Improving Interoperability between Different Languages by Machine Translation
  - 1.9.4. Assessing and Mitigating Potential Challenges and Limitations of Machine Translation
- 1.10. Recommended AI Tools to Improve Productivity
  - 1.10.1. Comparative Analysis of AI Tools for Software Development
  - 1.10.2. Integration of AI Tools in Workflows
  - 1.10.3. Automation of Routine Tasks with AI Tools
  - 1.10.4. Evaluating and Selecting Tools Based on Context and Project Requirements

## Module 2. Web Projects with AI

- 2.1. Preparation of the Working Environment for Web Development with AI
  - 2.1.1. Configuration of Web Development Environments for Projects with Artificial Intelligence
  - 2.1.2. Selection and Preparation of Essential Tools for AI Web Development
  - 2.1.3. Integration of Specific Libraries and Frameworks for Web Projects with Artificial Intelligence
  - 2.1.4. Implementation of Best Practices in the Configuration of Collaborative Development Environments
- 2.2. Workspace Creation for AI Projects
  - 2.2.1. Effective Design and Organization of Workspaces for Web Projects with Artificial Intelligence Components
  - 2.2.2. Use of Project Management and Version Control Tools in the Workspace
  - 2.2.3. Strategies for Efficient Collaboration and Communication in the Development Team
  - 2.2.4. Adaptation of the Workspace to the Specific Needs of AI Web Projects
- 2.3. Design Patterns in AI Products
  - 2.3.1. Identification and Application of Common Design Patterns in User Interface with Artificial Intelligence Components
  - 2.3.2. Development of Specific Patterns to Improve User Experience in Web Projects with AI
  - 2.3.3. Integration of Design Patterns in the Overall Architecture of AI Web Projects
  - 2.3.4. Evaluation and Selection of Adequate Design Patterns according to the Project Context
- 2.4. Frontend Development with AI
  - 2.4.1. Integration of AI Models into the Presentation Layer of Web Projects
  - 2.4.2. Development of Adaptive User Interfaces with Artificial Intelligence Elements
  - 2.4.3. Implementation of Natural Language Processing (NLP) Functionalities in the Frontend
  - 2.4.4. Strategies for Performance Optimization in Frontend Development with AI
- 2.5. Database Creation



- 2.5.1. Selection of Database Technologies for Web Projects with Artificial Intelligence
- 2.5.2. Design of Database Schemas for Storing and Managing AI-Related Data
- 2.5.3. Implementation of Efficient Storage Systems for Large Volumes of Data Generated by AI Models
- 2.5.4. Strategies for the Security and Protection of Sensitive Data in AI Web Project Databases
- 2.6. Back-End Development with AI
  - 2.6.1. Integration of AI Services and Models in the Backend Business Logic
  - 2.6.2. Development of Specific APIs and Endpoints for Communication between the Frontend and AI Components
  - 2.6.3. Implementation of Data Processing and Decision Making Logic in the Backend with Artificial Intelligence
  - 2.6.4. Strategies for Scalability and Performance in the Backend Development of Web Projects with AI
- 2.7. Optimizing Your Web Deployment Process
  - 2.7.1. Automating Web Project Build and Deployment Processes with AI
  - 2.7.2. Implementing CI/CD Pipelines Tailored to Web Applications with Artificial Intelligence Components
  - 2.7.3. Strategies for Efficient Release and Upgrade Management in Continuous Deployments
  - 2.7.4. Post-Deployment Monitoring and Analysis for Continuous Process Improvement
- 2.8. AI in Cloud Computing
  - 2.8.1. Integration of Artificial Intelligence Services in Cloud Computing Platforms
  - 2.8.2. Development of Scalable and Distributed Solutions using Cloud Services with AI Capabilities
  - 2.8.3. Strategies for Efficient Resource and Cost Management in Cloud Environments with AI-enabled Web Applications
  - 2.8.4. Evaluation and Comparison of Cloud Service Providers for AI-enabled Web Projects
- 2.9. Creating an AI-enabled Project for LAMP Environments
  - 2.9.1. Adaptation of Web Projects based on the LAMP Stack to include Artificial Intelligence Components
  - 2.9.2. Integration of AI-specific Libraries and Frameworks in LAMP Environments
  - 2.9.3. Development of AI Functionalities Complementing the Traditional LAMP Architecture
  - 2.9.4. Strategies for Optimization and Maintenance in Web Projects with AI in LAMP Environments







- 2.10. Creating an AI-enabled Project for MEVN Environments
  - 2.10.1. Integration of MEVN Stack Technologies and Tools with AI Components
  - 2.10.2. Development of Modern and Scalable Web Applications in MEVN Environments with AI Capabilities
  - 2.10.3. Implementation of Data Processing and Machine Learning functionalities in MEVN projects
  - 2.10.4. Strategies for Improving Performance and Security Enhancement of AI-enabled Web Applications in MEVN Environments

### Module 3. AI-enabled Mobile Applications

- 3.1. Preparation of Working Environment for Mobile Development with AI
  - 3.1.1. Configuration of Mobile Development Environments for Projects with Artificial Intelligence
  - 3.1.2. Selection and Preparation of Specific Tools for Mobile Application Development with AI
  - 3.1.3. Integration of AI Libraries and Frameworks in Mobile Development Environments
  - 3.1.4. Configuration of Emulators and Real Devices for Testing Mobile Applications with AI Components
- 3.2. Creating a Workspace with GitHub Copilot
  - 3.2.1. Integration of GitHub Copilot in Mobile Development Environments
  - 3.2.2. Effective Use of GitHub Copilot for Code Generation in AI Projects
  - 3.2.3. Strategies for Developer Collaboration when using GitHub Copilot in the Workspace
  - 3.2.4. Best Practices and Limitations in the Use of GitHub Copilot in Mobile Application Development with AI
- 3.3. Firebase Configuration
  - 3.3.1. Initial Configuration of a Firebase Project for Mobile Development
  - 3.3.2. Firebase Integration in Mobile Applications with Artificial Intelligence Functionalities
  - 3.3.3. Use of Firebase Services as a Database, Authentication and Notifications in AI Projects
  - 3.3.4. Strategies for Real-Time Data and Event Management in Firebase-enabled Mobile Applications

- 3.4. Concepts of Clean Architecture, DataSources, Repositories
  - 3.4.1. Fundamental Principles of Clean Architecture in Mobile Development with AI
  - 3.4.2. Implementation of DataSources and Repositories Layers in Clean Architectures
  - 3.4.3. Design and Structuring of Components in Mobile Projects with a Focus on Clean Architecture
  - 3.4.4. Benefits and Challenges of Implementing Clean Architecture in Mobile Applications with AI
- 3.5. Authentication Screen Creation
  - 3.5.1. Design and Development of User Interfaces for Authentication Screens in Mobile Applications with AI
  - 3.5.2. Integration of Authentication Services with Firebase in the Login Screen
  - 3.5.3. Use of Security and Data Protection Techniques in the Authentication Screen
  - 3.5.4. Personalization and Customization of the User Experience on the Authentication Screen
- 3.6. Dashboard and Navigation Creation
  - 3.6.1. Dashboard Design and Development with Artificial Intelligence Elements
  - 3.6.2. Implementation of Efficient Navigation Systems in Mobile Applications with AI
  - 3.6.3. Integration of AI Functionalities in the Dashboard to Improve User Experience
- 3.7. Creation of Listing Screen
  - 3.7.1. Development of User Interfaces for AI-enabled Mobile Application Listing Displays
  - 3.7.2. Integration of Recommendation and Filtering Algorithms in the Listing Screen
  - 3.7.3. Use of Design Patterns for Effective Data Presentation in the Listing Screen
  - 3.7.4. Strategies for Efficient Real-Time Data Loading in the Listing Screen



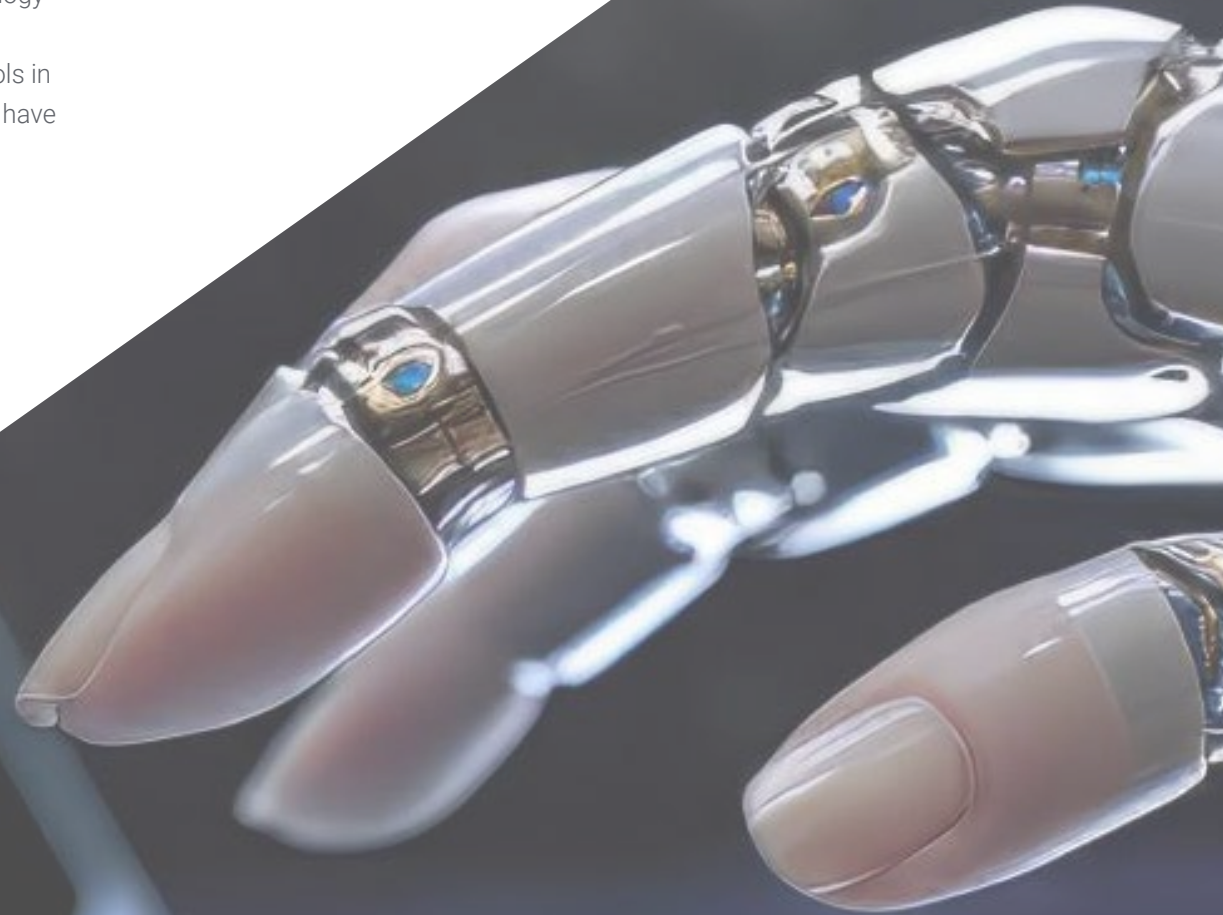


- 3.8. Creating Detail Screen
  - 3.8.1. Design and Development of Detailed User Interfaces for the Presentation of Specific Information
  - 3.8.2. Integration of AI Functionalities to Enrich the Detail Screen
  - 3.8.3. Implementation of Interactions and Animations in the Detail Screen
  - 3.8.4. Strategies for Performance Optimization in Loading and Detail Display in AI-enabled Mobile Applications
- 3.9. Creating Settings Screen
  - 3.9.1. Development of User Interfaces for Configuration and Settings in AI-enabled Mobile Applications
  - 3.9.2. Integration of Custom Settings Related to AI Components
  - 3.9.3. Implementing Customization Options and Preferences in the Configuration Screen
  - 3.9.4. Strategies for Usability and Clarity in the Presentation of Options in the Settings Screen
- 3.10. Creating Icons, Splash and Graphic Resources for Your App with AI
  - 3.10.1. Designing and Creating Attractive Icons to Represent Your AI Mobile Application
  - 3.10.2. Developing Splash Screens with Impressive Visual Elements
  - 3.10.3. Selection and Adaptation of Graphic Resources to Enhance the Aesthetics of the Mobile Application
  - 3.10.4. Strategies for Consistency and Visual Branding in AI Application Graphics Elements

# 05 Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.







“

*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

“

*At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world"*



*You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.*



*The student will learn to solve complex situations in real business environments through collaborative activities and real cases.*

### A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.

“*Our program prepares you to face new challenges in uncertain environments and achieve success in your career”*

The case method has been the most widely used learning system among the world's leading Information Technology schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the course, students will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

## Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*In 2019, we obtained the best learning results of all online universities in the world.*

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.





In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

This methodology has trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, and financial markets and instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



This program offers the best educational material, prepared with professionals in mind:



#### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Practising Skills and Abilities

They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



#### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best specialists in the world.



#### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.





# 06 Certificate

This Postgraduate Diploma in Multiplatform Application Development using Artificial Intelligence guarantees, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.





“

*Successfully complete this program  
and receive your university qualification  
without having to travel or fill out  
laborious paperwork"*

This **Postgraduate Diploma in Multiplatform Application Development using Artificial Intelligence** contains the most complete and up-to-date educational program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University** via tracked delivery\*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Diploma in Multiplatform Application Development using Artificial Intelligence**

Official N° of hours: **450 h.**



future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
development languages  
virtual classroom



Postgraduate Diploma  
Multiplatform Application  
Development using  
Artificial Intelligence

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Diploma

## Multiplatform Application Development using Artificial Intelligence