



and E-Commerce Automation with Artificial Intelligence

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 18 ECTS

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/artificial-intelligence/postgraduate-diploma/postgraduate-diploma-campaign-optimization-e-commerce-automation-artificial-intelligence

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tech 06 | Introduction

Campaign Optimization and E-Commerce Automation with Artificial Intelligence delivers a number of significant benefits, boosting the efficiency and performance of online business strategies. By harnessing the power of AI, companies can personalize and refine their advertising campaigns, dynamically adapting them to user preferences and behaviors. Automation, on the other hand, frees up HR by taking over routine tasks, allowing teams to focus on creativity and innovation.

In this context, TECH has designed this Postgraduate Diploma, which will delve into the application of Artificial Intelligence in the optimization of advertising campaigns. Professionals will be able to use Emarsys to implement personalized advertising, taking advantage of advanced segmentation and targeting techniques with Eloqua, to reach specific audiences at various stages of the customer lifecycle.

Likewise, the analysis of Digital Marketing data with Artificial Intelligence will be explored, addressing aspects such as the detection of hidden patterns and trends, the analysis of brand sentiment, the prediction of campaign results, and the evaluation of risks and opportunities in Marketing strategies. Finally, the implementation of chatbots and virtual assistants for customer service, fraud detection and prevention in transactions with Sift, and analysis to identify suspicious behavior in real time will be explored. In addition, ethics and responsibility in the use of Al will be promoted, ensuring transparency in the collection and use of data.

This completely virtual university syllabus will offer graduates the flexibility to follow it from anywhere and at any time. In this way, they will only require a device with an Internet connection to access all the learning materials. And all this will be carried out following the Relearning methodology, which focuses on the repetition of fundamental concepts to ensure optimal understanding of the content.

This Postgraduate Diploma in Campaign Optimization and E-Commerce Automation with Artificial Intelligence contains the most complete and up-to-date program on the market. The most important features include:

- Development of practical cases presented by experts in Campaign Optimization and E-Commerce Automation with Artificial Intelligence
- The graphic, schematic and practical contents with which it is conceived scientific and practical information on those 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



Al's predictive analytics capabilities will allow you to anticipate market trends and adjust strategies in real time, maximizing ROI"



Campaign Optimization and Automation with AI will empower your informed decision making, effective personalization and your operational efficiency. Benefit from TECH's most innovative multimedia resources!"

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.

Thanks to this 100% online program, you will optimize advertising budgets through Artificial Intelligence, performing an automated tracking of results and adjustments in real time.

You will use tools such as Brandwatch for social media analytics, enhancing the identification of market niches and monitoring emerging trends.







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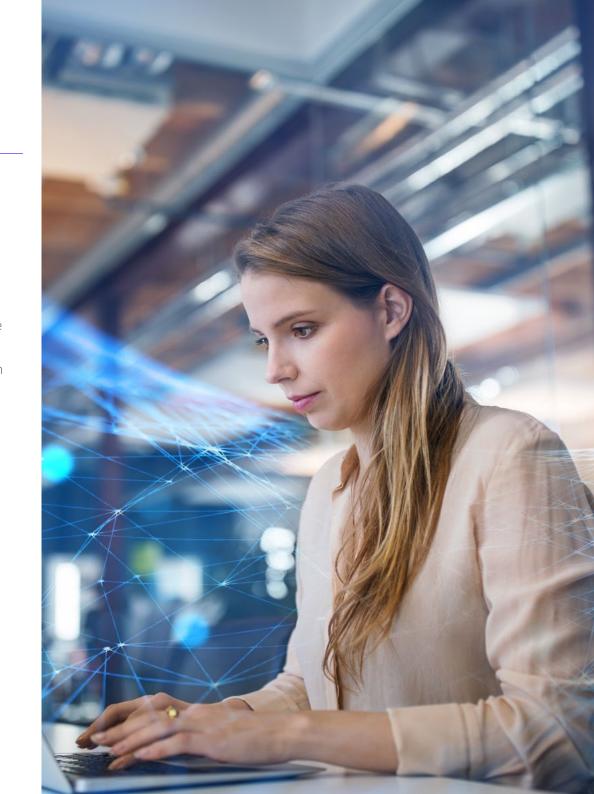


General Objectives

- Implement Artificial Intelligence applications in Digital Marketing and e-commerce to improve the efficiency and effectiveness of strategies
- Improve user experience in Digital Marketing by using Artificial Intelligence for dynamic personalization of websites, applications and content
- Implement Artificial Intelligence systems for the automation of e-Commerceprocesses, from inventory management to customer service
- Research and apply predictive AI models to identify emerging trends in the marketplace and anticipate customer needs
- Collaborate on cross-functional projects to integrate Artificial Intelligence solutions with existing Digital Marketing platforms and develop new strategies
- Evaluate the impact of Artificial Intelligence technologies on Digital Marketing and e-commerce, both from a business and ethical perspective



You will acquire skills in implementing automation tools, such as chatbots, to maximize operational efficiency and improve strategic decision making"





Module 1. Campaign Optimization and AI Application

- Implement AI and personalized advertising with Emarsys to create highly personalized and targeted ads to specific audiences
- Apply advanced ad targeting and segmentation techniques with Eloqua to reach specific audiences at different stages of the customer lifecycle
- Optimize ad budgets using Artificial Intelligence to maximize ROI and campaign effectiveness
- Perform automated tracking and analysis of campaign results to make real-time adjustments and improve performance
- Implement automated and adaptive A/B testing to identify high-value audiences and optimize campaign creative content
- Automate technical SEO and keyword analysis tasks with Spyfu, using Artificial Intelligence to perform multi-channel attribution analysis

Module 2. Analyzing Digital Marketing Data with Artificial Intelligence

- Detect hidden patterns and trends in mMrketing data and perform brand sentiment analysis
- Predict campaign results and conversions, detect anomalies and optimize customer experience using predictive analytics
- Perform risk and opportunity analysis on marketing strategies, including predictive analytics on market trends and competitor assessment
- Use AI and social media analytics with Brandwatch to identify market niches, monitor emerging trends and perform sentiment analysis

Module 3. Artificial Intelligence to Automate e-Commerce Processes

- Integrate Artificial Intelligence in the conversion funnel to analyze sales data and performance at all stages of the buying process
- Implement chatbots and virtual assistants for 24/7 customer service, using Artificial Intelligence to generate automatic responses and gather feedback
- Detect and prevent fraud in e-Commerce transactions with Sift, using Artificial Intelligence to detect anomalies and verify identities
- Perform Artificial Intelligence analysis to detect suspicious behavior and fraudulent patterns in real-time
- Promote ethics and accountability in the use of Artificial Intelligence in e-Commerce, ensuring transparency in the collection and use of data
- Explore future trends of Artificial Intelligence in Marketing and E-Commerce with REkko





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Management



Dr. Peralta Martín-Palomino, Arturo

- CEO and CTO at Prometeus Global Solutions
- CTO at Korporate Technologies
- CTO at Al Shephers 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
- Professional Master's Degree in Executive MBA by the Isabel I University
- Professional Master's Degree in Sales and Marketing Management, Isabel I University
- Expert Master's Degree in Big Data by Hadoop Training
- Professional Master's Degree in Advanced Information Technologies from the University of Castilla La Mancha
- Member of: SMILE Research Group



Ms. Martínez Cerrato, Yésica

- Education, Business and Marketing Specialist
- Responsible for Technical Training at Securitas Seguridad España
- Product Manager in Electronic Security at Securitas Direct
- Business Intelligence Analyst at Ricopia Technologies
- Computer Technician and Head of OTEC Computer Classrooms at the University of Alcalá de Henares
- Collaborator in the ASALUMA Association
- Degree in Electronic Communications Engineering at the Polytechnic School, University of Alcalá de Henares, Madrid

Professors

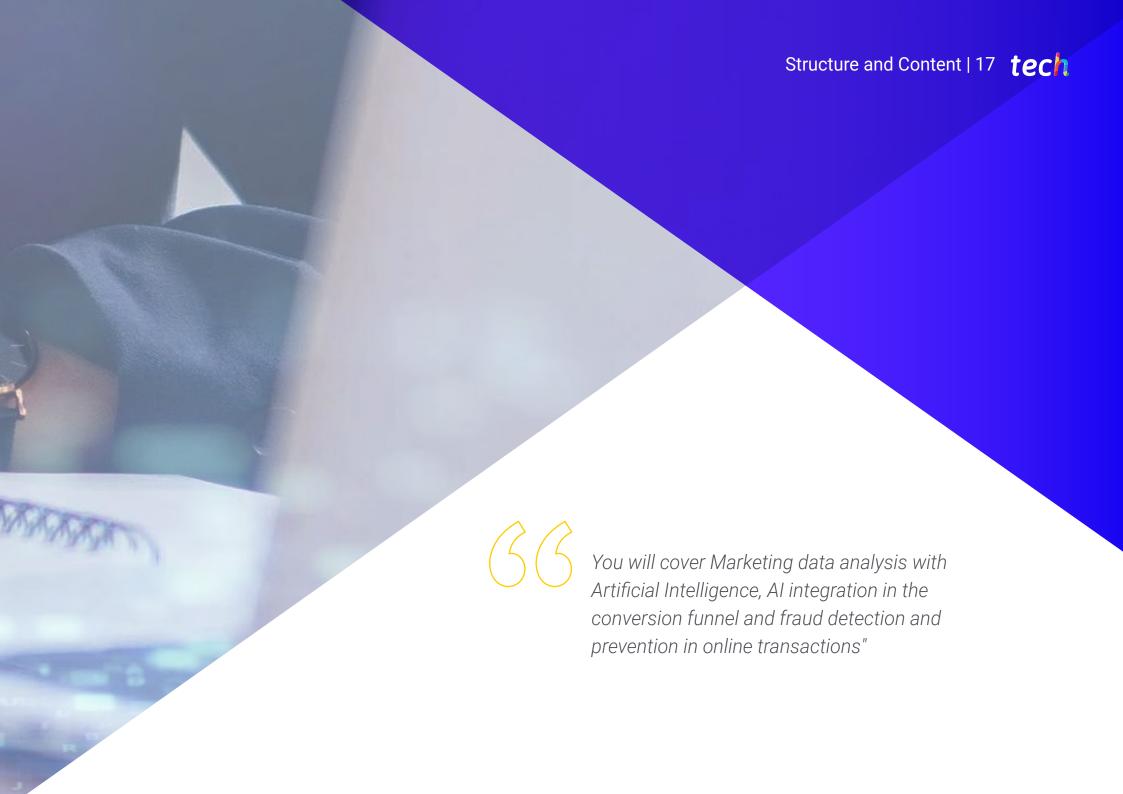
Mr. Nájera Puente, Juan Felipe

- Data Analyst and Data Scientist
- Director of Studies and Research at the Council for Quality Assurance in Higher Education
- Production Programmer at Confiteca C.A
- Processes Consultant at Esefex Consulting
- Academic Planning Analyst at San Francisco de Quito University
- Professional Master's Degree in Big Data and Data Science from the International University of Valencia
 Industrial Engineer from San Francisco de Quito University

Ms. Del Rey Sánchez, Cristina

- Talent Management Administrative Officer at Securitas Seguridad España, S.L.
- Coordinator of Extracurricular Activities Centers
 Support classes and pedagogical interventions with Primary and Secondary
 Education students
- Postgraduate in Development, Delivery and Tutoring of e-Learning Training Actions
- Postgraduate in Early Childhood Care
- Degree in Pedagogy from the Complutense University of Madrid





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Module 1. Campaign Optimization and Al Application

- 1.1. Artificial Intelligence and Personalized Advertising with Emarsys
 - 1.1.1. Accurate Audience Targeting Using Algorithms
 - 1.1.2. Product and Service Recommender
 - 1.1.3. Conversion Funnel Optimization
- 1.2. Advanced Ad Targeting and Segmentation with Eloqua
 - 1.2.1. Segmentation by Custom Audience Segments
 - 1.2.2. Targeting by Devices and Platforms
 - 1.2.3. Segmentation by Customer Lifecycle Stages
- 1.3. Optimization of Advertising Budgets by means of Artificial Intelligence
 - 1.3.1. Continuous Optimization based on Data
 - 1.3.2. Use of Real-time Ad Performance Data
 - 1.3.3. Segmentation and Targeting
- 1.4. Automated Creation and Distribution of Personalized Advertisements with Cortex
 - 1.4.1. Generation of Dynamic creativities
 - 1.4.2. Content Personalization
 - 1.4.3. Optimization of Creative Design
- 1.5. Artificial Intelligence and Optimization of Marketing Campaigns with Adobe TArget
 - 1.5.1. Multiplatform Distribution
 - 1.5.2. Frequency Optimization
 - 1.5.3. Automated Tracking and Analysis
- 1.6. Predictive Analytics for Campaign Optimization
 - 1.6.1. Prediction of Market Trends
 - 1.6.2. Estimating Campaign Performance
 - 1.6.3. Budget Optimization
- 1.7. Automated and Adaptive A/B Testing
 - 1.7.1. Automated A/B Testing
 - 1.7.2. Identification of High Value Audiences
 - 1.7.3. Optimization of Creative Content
- 1.8. Real-time Data-driven Optimization with Evergage
 - 1.8.1. Real-time Tuning
 - 1.8.2. Customer Life Cycle Forecasting
 - 1.8.3. Detection of Behavioral Patterns





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- 1.9. Artificial Intelligence in SEO and SEM with BrightEdge
 - 1.9.1. Keyword Analysis using Artificial Intelligence
 - 1.9.2. Advanced Audience Targeting with Artificial Intelligence Tools
 - 1.9.3. Ad Personalization using Artificial Intelligence
- 1.10. Automating Technical SEO Tasks and Keyword Analysis with Spyfu
 - 1.10.1. Multichannel Attribution Analysis
 - 1.10.2. Campaign Automation using Artificial Intelligence
 - 1.10.3. Automatic Optimization of the Web Site Structure thanks to Artificial Intelligence

Module 2. Analyzing Digital Marketing Data with Artificial Intelligence

- 2.1. Artificial Intelligence in Data Analysis for Marketing with Google Analytics
 - 2.1.1. Advanced Audience Segmentation
 - 2.1.2. Predictive Trend Analysis using Artificial Intelligence
 - 2.1.3. Price Optimization using Artificial Intelligence Tools
- 2.2. Automated Processing and Analysis of Large Data Volumes with RapidMiner
 - 2.2.1. Brand Sentiment Analysis
 - 2.2.2. Marketing Campaign Optimization
 - 2.2.3. Personalization of Content and Messages with Artificial Intelligence Tools
- 2.3. Detection of Hidden Patterns and Trends in Marketing Data
 - 2.3.1. Detection of Behavioral Patterns
 - 2.3.2. Trend Detection using Artificial Intelligence
 - 2.3.3. Marketing Attribution Analysis
- 2.4. Data-driven Insights and Recommendations Generation with Data Robot
 - 2.4.1. Predictive Analytics Thanks to Artificial Intelligence
 - 2.4.2. Advanced Audience Segmentation
 - 2.4.3. Personalized Recommendations
- 2.5. Artificial Intelligence in Predictive Analytics for Marketing with Sisense
 - 2.5.1. Price and Offer Optimization
 - 2.5.2. Artificial Intelligence Sentiment and Opinion Analysis
 - 2.5.3. Automation of Reports and Analysis

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- 2.6. Prediction of Campaign Results and Conversions
 - 2.6.1. Anomaly Detection
 - 2.6.2. Customer Experience Optimization
 - 2.6.3. Impact Analysis and Attribution
- 2.7. Risk and Opportunity Analysis in Marketing Strategies
 - 2.7.1. Predictive Analysis in Market Trends
 - 2.7.2. Evaluation of Competence
 - 2.7.3. Reputational Risk Analysis
- 2.8. Sales and Product Demand Forecasting with ThoughtSpot
 - 2.8.1. Return on Investment (ROI) Optimization
 - 2.8.2. Compliance Risk Analysis
 - 2.8.3. Innovation Opportunities
- 2.9. Artificial Intelligence and Social Media Analytics with Brandwatch
 - 2.9.1. Market Niches and their Analysis with Artificial Intelligence
 - 2.9.2. Monitoring Emerging Trends
- 2.10. Sentiment and Emotion Analysis on Social Media with Clarabridge
 - 2.10.1. Identification of Influencers and Opinion Leaders
 - 2.10.2. Brand Reputation Monitoring and Crisis Detection

Module 3. Artificial Intelligence to Automate e-Commerce Processes

- 3.1. E-Commerce Automation with Algolia
 - 3.1.1. Customer Service Automation
 - 3.1.2. Price Optimization
 - 3.1.3. Personalization of Product Recommendations
- 3.2. Automation of Purchasing and Inventory Management Processes with Shopify Flow
 - 3.2.1. Inventory and Logistics Management
 - 3.2.2. Fraud Detection and Fraud Prevention
 - 3.2.3. Sentiment Analysis
- 3.3. Integration of Artificial Intelligence in the Conversion Funnel
 - 3.3.1. Sales and Performance Data Analysis
 - 3.3.2. Data Analysis at the Awareness Stage
 - 3.3.3. Data Analysis at the Conversion Stage





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- 3.4. Chatbots and Virtual Assistants for Customer Service
 - 3.4.1. Artificial Intelligence and 24/7 Assistance
 - 3.4.2. Feedbacks and Responses
 - 3.4.3. Generation of Queries/Responses with Artificial Intelligence Tools
- 3.5. Real-time Price Optimization and Product Recommender thanks to Artificial Intelligence with the Google Cloud AI Platform
 - 3.5.1. Competitive Price Analysis and Segmentation
 - 3.5.2. Dynamic Price Optimization
 - 3.5.3. Price Sensitivity Forecasting
- 3.6. Fraud Detection and Prevention in e-Commerce Transactions with Sift
 - 3.6.1. Anomaly Detection with the Help of Artificial Intelligence
 - 3.6.2. Identity Verification
 - 3.6.3. Real-time Monitoring with Artificial Intelligence
 - 3.6.4. Implementation of Automated Rules and Policies
- 3.7. Artificial Intelligence Analysis to Detect Suspicious Behavior
 - 3.7.1. Analysis of Suspicious Patterns
 - 3.7.2. Behavioral Modeling with Artificial Intelligence Tools
 - 3.7.3. Real-time Fraud Detection
- 3.8. Ethics and Responsibility in the Use of Artificial Intelligence in E-Commerce
 - 3.8.1. Transparency in the Collection and Use of Data Using Artificial Intelligence Tools with Watson
 - 3.8.2. Data Security
 - 3.8.3. Responsibility for Design and Development with Artificial Intelligence
- 3.9. Automated Decision Making with Artificial Intelligence with Watson Studio
 - 3.9.1. Transparency in the Decision-Making Process
 - 3.9.2. Accountability for Results
 - 3.9.3. Social Impact
- 3.10. Future Trends in Artificial Intelligence in the Field of Marketing and E-Commerce with REkko
 - 3.10.1. Marketing and Advertising Automation
 - 3.10.2. Predictive and Prescriptive Analytics
 - 3.10.3. Visual e-Commerce and Search
 - 3.10.4. Virtual Shopping Assistants





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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.



Methodology | 27 tech

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.



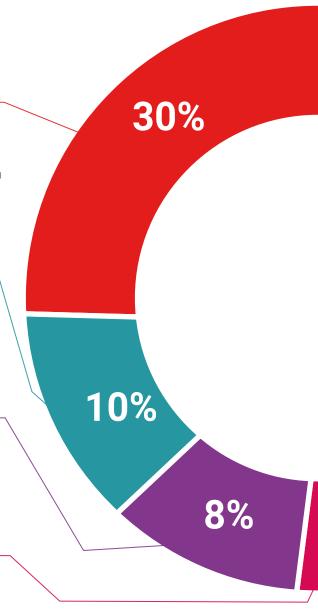
Practising Skills and Abilities

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.





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.

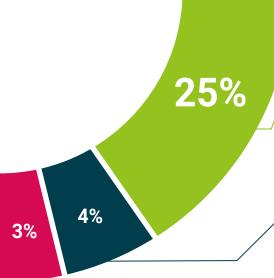


This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

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.





20%





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This program will allow you to obtain your **Postgraduate Diploma in Campaign Optimization and E-Commerce Automation with Artificial Intelligence** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Postgraduate Diploma in Campaign Optimization and E-Commerce Automation with Artificial Intelligence

ECTS: 18

Official No of Hours: 450 h.



Mr./Ms. Cristian David Velasquez Granada, with identification document 31914606J has successfully passed and obtained the title of:

Postgraduate Diploma in Campaign Optimization and E-Commerce Automation with Artificial Intelligence

This is a program of 450 hours of duration equivalent to 18 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



^{*}Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

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Postgraduate Diploma
Campaign Optimization
and E-Commerce Automation
with Artificial Intelligence

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Dedication: 16h/week
- » Schedule: at your own pace
- Exams: online

