

# D5 Training: Architectural Visualization Course

## Introduction to D5 Training

- D5 interface and navigation
- Object manipulation in D5
- Project import (Revit, SketchUp, 3ds Max)
- Terrain

## Materials and Textures in D5

- Material application
- Specific materials

## Lighting in D5

- Different types of lighting and their application
- Sunlight study

## Rendering in D5

- Camera settings and manipulation
- Still image rendering
- Animated sequence production
- D5 post-production effects

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# Lumion Training: Architectural Visualization Course

## Introduction to Lumion Training

- Lumion interface and navigation
- Object manipulation in Lumion
- Project import (Revit, SketchUp, 3ds Max)
- Terrain

## Materials and Textures in Lumion

- Material application

- Specific materials

## Lighting in Lumion

- Different types of lighting and their application
- Sunlight study

## Rendering in Lumion

- Camera settings and manipulation
- Still image rendering
- Animated sequence production
- Post-production effects

## Conclusion of the Lumion Training

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# Twinmotion Training: Architectural Visualization Course

## Introduction to Twinmotion Training

- Twinmotion interface and navigation
- Project import (Revit, SketchUp, 3ds Max)

## Materials and Textures in Twinmotion

- Material application
- Specific materials

## Vegetation, Terrain and Landscaping in Twinmotion

- Terrain sculpting
- Terrain from predefined sources
- Scatter tools
- Grass, trees

## Object Libraries and External Source Import in Twinmotion

- Library asset management and manipulation
- Importing external content
- User library
- Lights
- Characters and vehicles
- Animator

## Rendering in Twinmotion

- Camera settings and manipulation
- Still image rendering
- “Phased” rendering
- Animated sequence production
- Post-production

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# Vantage Training: Architectural Visualization Course

## Introduction to Vantage Training

- Vantage interface and navigation
- Object manipulation
- Conversion from V-Ray
- Project preparation and import (Revit, SketchUp, 3ds Max)
- Terrain

## Modeling in Vantage

- Material application
- Specific materials

## Lighting in Vantage

- Different types of lighting and their application
- Sunlight study

## Rendering in Vantage

- Camera settings and manipulation
- Rendering production
- Animated sequence production
- Vantage post-production effects

# Training: Fundamentals of Artificial Intelligence for Engineers and Technicians

## Fundamentals for Understanding Artificial Intelligence

- Introduction to key AI concepts: algorithms, ML, DL, and LLM.
- Exploration of algorithms integrated into ML, DL, and LLM.
- The importance of mastering Machine Learning before tackling Deep Learning and LLMs.

## Module 1: Overview of Main Deep Learning Models

- Introduction to core Deep Learning concepts and neural networks.
- Overview of Deep Learning applications and limitations.

## Module 2: Overview of Main Large Language Models (LLMs)

- How LLMs work and understanding their applications.
- Exploration of the limits and challenges of LLMs.

## Module 3: Introduction to Machine Learning

- Fundamental concepts of Machine Learning.
- Overview of commonly used ML algorithms.
- Why ML is a key step before DL and LLMs.

## Module 4: Machine Learning Models

- Supervised learning: theoretical principles and practical examples.
- Unsupervised learning: methods and use cases.

## Module 5: Using PyCaret for Machine Learning

- Installing and configuring PyCaret.
- Exploring the models available in PyCaret.
- Handling datasets for Machine Learning tasks.

## Next Step After This Training

[OpenAI Training for Developers](#)

# FileMaker Pro Training

## Introduction to [FileMaker Pro Training](#)

- What is a database?
- Overview of FileMaker Pro software

## Overview of [FileMaker Pro Features](#)

- Creating a new file
- Understanding the FileMaker Pro environment

## Creating a File

- Creating a field
- Types of available fields
- Editing fields

## Understanding the Different Work Modes in FileMaker

- Browse Mode
- Layout Mode
- Find Mode
- Preview Mode
- Switching between modes

## Working in Browse Mode

- Creating records
- Deleting records
- Entering data
- Using indexes and value lists

## Working in Layout Mode in FileMaker Pro

- Creating a layout
- Modifying a layout
- Using predefined layouts

## Working in Find Mode in FileMaker Pro

- Creating a query
- Modifying a query
- Performing global searches
- Performing specific searches

## Working in Print Mode in FileMaker

- Print preview
- Printing a data sheet
- Printing a table structure

## Collaboration with Other Software

- Importing/Exporting data
- Saving a database

## Formatting Fields

- Date, time, number, and text formats
- Formatting and deleting a layout

## Creating Reports in FileMaker Pro

- Creating reports using the wizard
- Generating statistics

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# MySQL Training: Stored Procedures and Triggers

## Introduction

Overview of MySQL.

Course objectives: optimize stored procedures, explore alternatives, and master advanced data processing functions.

## Module 1: Review of SQL Query Writing

- Write simple and complex SQL queries.
- Use WHERE, GROUP BY, HAVING, and ORDER BY clauses.
- Joins (INNER, LEFT, RIGHT, FULL) to combine tables.
- Use subqueries and nested queries.

## Module 2: Optimization and Alternatives to Stored Procedures

- What is a stored procedure and when to use it?
- Advantages and limitations of stored procedures.
- Optimization techniques: indexing, reducing nested queries, managing transactions.

- Alternatives: materialized views, prepared statements, and application-level solutions.

### Module 3: Best Practices and Data Management in MySQL

- Table structuring, efficient indexing, and performance diagnostics.
- Query optimization: specific SELECTs, pagination, and join techniques.
- Text management: CONCAT(), SUBSTRING(), REPLACE(), cleaning and formatting.
- Number processing: SUM(), AVG(), ROUND(), MOD(), statistical and financial calculations.

### Module 4: Advanced Data Comparison and Manipulation Functions

- Date comparison functions: NOW(), CURDATE(), DATEDIFF(), TIMESTAMPDIFF().
- Combined processing of text and numeric data in MySQL.
- Use of regular expressions for advanced data cleaning.

### Module 5: Using Cursors and Looping Techniques

- Definition, syntax, and usage context of cursors in MySQL.
- Practical examples: iterating through records and performing repetitive operations.

### Conclusion and Final Case Study

- Summary of key concepts.
- Integrated case study: implementing optimization, advanced functions, and cursors.

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# SQL Training for SQL Server

## Introduction to [SQL Server Training](#)

Overview of the [SQL Server](#) course

- Definition of a database and the different types of objects

## Data Manipulation Language (DML)

- Inserting rows (INSERT)
- Inserting multiple rows
- Inserting from a SELECT statement
- Updating with UPDATE

- UPDATE with subqueries
- Deleting records (DELETE)
- *Practical workshop*: Modifying the content of our database

## Data Query Language (DQL)

- Data types (date, float, etc.)
- Selecting data: SELECT
- TOP, WHERE, HAVING, and other criteria
- Joins: INNER / LEFT / RIGHT / OUTER
- Creating and modifying data: INSERT / UPDATE / DELETE

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# macOS for Professionals: From File Management to Pages & Numbers Mastery

## Module 1 – Introduction to the Mac Environment

- Getting started with macOS and its intuitive interface

- Exploring the Desktop, Dock, menu bar, and essential shortcuts
- Mastering window management, workspaces, and Mission Control
- Basic settings to optimize the user experience: keyboard, mouse, trackpad
- Organizing files and folders through Finder for greater productivity
- Smart searching with Spotlight and voice assistance with Siri

## Module 2 – Optimizing Mac Management for Daily Use

- Create, save, and efficiently organize your documents
- Use iCloud for automatic backup and multi-device synchronization
- Discover essential built-in apps: Safari, Mail, Calendar, Notes
- Ensure workstation security: passwords, updates, privacy settings

## Module 3 – Mastering the Basics of Numbers

- Discovering the Numbers interface and how it works
- Creating and saving professional spreadsheets
- Entering, formatting, and structuring data
- Essential formulas: sums, averages, percentages
- Applying conditional formatting and using filters
- Designing clear and impactful charts
- Exporting and sharing to Excel, PDF, or via iCloud

## Module 4 – Enhancing Your Content with Pages

- Introduction to Pages: interface, navigation, and layout logic
- Create professional documents with text, visuals, and graphic elements
- Leverage templates to speed up document creation
- Use styles, manage headers/footers, and pagination
- Insert tables and charts from Numbers
- Work collaboratively with iCloud and real-time comments
- Export to Word, PDF, or ePub formats

## Module 5 – Practical Workshop and Hands-On Application

- Complete creation of a professional document in Pages integrating:
  - structured and styled text,
  - a table from Numbers,
  - a customized illustrative chart.
- Optimizing the final layout and exporting to PDF
- Simulating document sharing with a collaborator (collaborative workflow)

**Estimated duration:** 1 full day (or 2 half-days depending on your internal needs)