

AI & Machine Learning Journey

Applied AI : Quick Start to Building AI-Driven, Intelligent Web Applications (TTAI2361)

Master AI Insights! Dive into Integrating AI and Web Development to Create Responsive and Individualized User Experiences

Course Snapshot

- **Course: Quick Start to Building AI-Driven, Intelligent Web Applications (TTAI2361)**
- **Duration:** 2 days
- **Audience & Skill Level:** This Intermediate level course is geared for experienced technical professionals eager to meld the capabilities of AI with the dynamism of web applications. Roles might include experienced web developers, data analysts, machine learning engineers, UX Designers and digital product managers.
- **Format / Hands-on:** This course combines engaging instructor-led presentations and practical demonstrations with hands-on programming exercises, challenge labs, use case exploration and engaging group activities. Student machines are required.
- **Flexible Delivery Options:** This course can be delivered for your team or organization **online-live (virtual), onsite in-person, self-paced** or across our immersive **blended learning experience platform (LXP)**.
- **Public Schedule:** This course is currently available on our Public Open Enrollment Schedule.
- **Customizable:** We're flexible! This course agenda, topics, labs, hours and delivery modalities can be adjusted to target your specific training skills objectives, tools and learning goals. Please ask for details.

Description

In today's digital age, the most engaging web applications leverage the transformative power of AI to offer responsive and individualized user experiences. Our **Quick Start to Building AI-Driven Intelligent Web Applications** invites you on an immersive journey, blending the dynamism of web development with the intelligence of AI. By delving into this synergy, you'll be well equipped to craft digital interfaces that not only enhance user engagement but also align seamlessly with business objectives, marking a pioneering stride into the future of intuitive and tailored web interactions.

Over two days, we'll delve into essential topics such as:

- **Intelligent Web Design:** Understand the foundation and intricacies of smart algorithms to craft intuitive web applications.
- **Data Patterns:** Decode and utilize data to make informed decisions for your AI integrations.
- **Tailored Content Suggestions:** Discover the mechanisms behind recommendation systems, offering users content that truly resonates.
- **Efficient Sorting:** Grasp advanced sorting techniques to streamline data processing and enhance user experience.
- **Ad Click Predictions:** Learn to forecast user behaviors, optimizing ad placements for better engagement.
- **Neural Connectivity:** Dive into the world of neural networks, understanding the core of AI's decision-making capabilities.

The course focuses heavily on practical real-world scenario-based hands-on labs, providing you with ample practice to apply your newly learned skills to real projects under the valuable guidance of our AI expert instructor. You'll apply critical concepts in real-time, from content recommendation to user behavior predictions. By the end of this course, you'll be equipped with the knowledge and practical skills to integrate AI into your web applications, making them not only functional but also intelligent and user-centric.

Learning Objectives

This course combines engaging instructor-led presentations and useful demonstrations with valuable hands-on labs and engaging group activities. Equipped with these skills, you'll be set to infuse AI magic into your web creations, making them more intuitive, dynamic, and user-friendly.

Working in a hands-on learning environment led by our engaging AI expert you'll learn to:

- **Decipher Smart Algorithms:** Grasp the core concepts behind intelligent web design, enabling you to weave smart algorithms seamlessly into your web applications for enhanced user experiences.

- **Navigate Data with Confidence:** Delve deep into data transformation and grouping, helping you identify and interpret patterns, and ensuring your AI solutions are grounded in solid data science.
- **Craft Personalized Content Recommendations:** Develop a keen understanding of content suggestion systems, empowering you to curate web content that resonates with individual users.
- **Master the Art of Sorting:** Get hands-on with various item sorting techniques, ensuring that every piece of data finds its rightful place, and enhancing the efficiency and accuracy of your AI web applications.
- **Predict with Precision:** Uncover the secrets of forecasting online advertisement clicks. By the end of the course, you'll be equipped to anticipate user behaviors, optimizing ad placements and driving engagement.
- **Harness Advanced Neural Networks:** Take a deep dive into the interconnected world of neural systems. By understanding layers, perceptrons, and error correction methods, you'll be ready to craft sophisticated AI-driven solutions for your web projects.

If your team requires different topics, additional skills or a custom approach, our team will collaborate with you to adjust the course to focus on your specific learning objectives and goals.

Audience

This Intermediate level course is geared for experienced technical professionals eager to meld the capabilities of AI with the dynamism of web applications. Roles might include experienced web developers, data analysts, machine learning engineers, UX Designers and digital product managers. If you're passionate about enhancing digital experiences, tailoring user interactions, or predicting online behaviors, this immersive journey into the intelligent web realm is tailor-made for you.

Pre-Requisites

To ensure a smooth learning experience and maximize the benefits of attending this course, you should have the following prerequisite skills:

- Basic Python Programming experience.
- Basic web development experience, working with HTML / CSS, etc.
- Comfort with elementary data concepts, such as databases, data structures, and basic data manipulation.

Next Steps / Follow-on Courses: We offer a wide variety of follow-on courses and learning paths for Generative AI, AI for Business, GPT, Applied AI, Azure OpenAI, Google BARD, AI for developers, testers, data analytics, machine learning, deep learning, programming, intelligent automation and many other related topics. Please see our catalog for the current **AI & Machine Learning Courses, Learning Journeys & Skills Roadmaps**, list courses and programs.

Setup Made Simple! Learning Experience Platform (LXP)

All applicable course software, digital courseware files or course notes, labs, data sets and solutions, live coaching support channels and rich extended learning and post training resources are provided for you in our "easy access, no install required" online **Learning Experience Platform (LXP)**, remote lab and content environment. Access periods vary by course. We'll collaborate with you to ensure your team is set up and ready to go well in advance of the class.

Course Topics / Agenda

Please note that this topics, agenda and labs are subject to change to cover the most recent technical trends or tools, and may adjust during live delivery based on audience skill level, interests and participation.

- | | | |
|--|---|--|
| <p>1. Intelligent Web Design and Implementation</p> <ul style="list-style-type: none"> • A Glimpse of Smart Algorithms: An Insight into Google Now • The Evolution and Phases of Smart Algorithms • Additional Illustrations of Smart Algorithms | <ul style="list-style-type: none"> • Limitations and Misconceptions of Intelligent Apps • Different Varieties and Types of Smart Algorithms • Methods to Measure Intelligent Algorithm Effectiveness • Crucial Considerations | <p>Regarding Smart Algorithms</p> <p>2. Unraveling Patterns in Data: Transformation and Grouping</p> <ul style="list-style-type: none"> • Understanding the Core Elements, Skewness, and Unsystematic Fluctuations in Data |
|--|---|--|

- Navigating through High-Dimensional Data Spaces
 - Methodology of Grouping Using K-means
 - Linking k-means Techniques with Gaussian Mixtures
 - Modifying and Refining the Data Dimensions
- 3. Tailored Content Suggestions and Recommendations**
- Scene Setting: Digital Film Shopping Platform
 - Comparative Metrics and Similarity in Content
 - Inside the Mechanics of Content Suggestion Systems
 - User-Centric Filtering Approaches
 - Mathematical Decomposition in Content Suggestions
 - The Race to Win the Netflix Challenge
 - Evaluative Metrics for Recommendation Systems
- 4. Item Sorting: Guiding Entities to Their Proper Locations**
- Recognizing the Importance of Sorting
 - A Brief Look at Various Sorting Techniques
- 5. A Detailed Examination: Online Advertisement Click Forecasts**
- Tracing the Roots and Framework
 - The Mechanism of Trade
 - Explaining the Role of a Bidding Participant
 - Deciphering Decision-Making Engines
 - Predicting Clicks Using Specific Algorithms
 - Challenges in Assembling a Decision-Making Mechanism
 - The Upcoming Era of Instantaneous Forecasts
- 6. Exploring Neural Connectivity and Advanced Learning Techniques**
- A Layman's Guide to Sophisticated Learning
 - Architecture of Interconnected Neural Systems
- 7. Decision Making: Selecting the Optimal Path**
- Understanding the Simplest Neural Unit: Perceptron
 - Layers of Connected Perceptrons
 - Learning through Error Correction Methods
 - Beyond Traditional Networks: A Journey into Advanced Learning
 - Comparative Analysis through A/B Testing
 - Exploring the Complexities of Multi-Option Scenarios
 - Real-Life Uses of Probabilistic Selection Methods
 - A/B Tests vs. Probabilistic Selection: A Contrast
 - Expanding on Multi-Option Selection Strategies
- 8. The Road Ahead for Smart Web Technology**
- The Role of ChatGPT and Other Comprehensive Language Processors

For More Information

For more information about our training services (instructor-led, self-paced or blended), collaborative coaching services, robust Learning Experience Platform (LXP), Career Experiences, public course schedule, partner programs, courseware licensing options or to see our complete list of course offerings, solutions and special offers, please visit us at www.triveratech.com, email Info@triveratech.com or call us toll free at **844-475-4559**. Our pricing and services are always satisfaction guaranteed.

TRIVERA TECHNOLOGIES • Collaborative IT Training, Coaching & Skills Development Solutions
www.triveratech.com • toll free +1-844-475-4559 • Info@triveratech.com • Twitter TriveraTech

ONSITE, ONLINE & BLENDED TRAINING SOLUTIONS • PUBLIC / OPEN ENROLLMENT COURSES
 LEARNING EXPERIENCE PLATFORM (LXP) • COACHING / MENTORING • ASSESSMENTS • CONTENT LICENSING & DEVELOPMENT
 LEARNING PLAN DEVELOPMENT • SKILLS IMMERSION PROGRAMS / RESKILLING / NEW HIRE / BOOT CAMPS
 PARTNER & RESELLER PROGRAMS • CORPORATE TRAINING MANAGEMENT • VENDOR MANAGEMENT SERVICES

Trivera Technologies is a Woman-Owned Small-Business Firm

