BlackBird
FOR TRAINING

Struts Framework in Artificial Intelligence

London (UK)

17 - 21 March 2025

UK Traininig
PARTNER

Struts Framework in Artificial Intelligence

Code: IT28 From: 17 - 21 March 2025 City: London (UK) Fees: 5100 Pound

Introduction

This training course is designed to bridge the gap between the Struts framework a pivotal tool in web development and the field of artificial intelligence AI. By participating in this course, professionals will learn to integrate Struts with AI technologies to build intelligent web applications. As we explore AI's potential in the development process, this course will empower developers to leverage Struts for creating cutting-edge, AI-powered solutions.

Course Objectives

- Gain a comprehensive understanding of the Struts framework, its components, and its role in web development.
- Discover the various artificial intelligence AI technologies that are transforming modern web development.
- Learn how to integrate AI functionalities into Struts-based applications to enhance user experiences and application performance.
- Develop practical skills for building AI-driven intelligent web applications using advanced AI techniques.
- Gain hands-on experience in integrating AI with Struts, enabling you to apply your knowledge to real-world projects.

Course Outlines

Day 1: Introduction to Struts and AI Integration

- Overview of the Struts framework: Learn about the structure, components, and capabilities of Struts.
- Introduction to artificial intelligence and its role in web development.
- Understanding the need for integrating AI with Struts applications.
- Exploring use cases and benefits of AI-powered web applications, such as enhanced data analytics, user personalization, and automation.
- Setting up the development environment, ensuring you are equipped to start your project with Struts and AI.

Day 2: Building Intelligent Forms with Struts

- Recap of Struts fundamentals: Understand the basics of Struts forms and how they interact with web applications.
- Integrating AI-powered form validation and data processing: Utilize AI to automate data input handling and improve data accuracy.
- Implementing intelligent autocomplete and suggestion features, driving efficiency in user interactions.
- Hands-on session: Build a form with AI-enhanced functionalities, such as predictive text and automated data validation.

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Day 3: Implementing AI-driven User Authentication

- Explore different methods of user authentication and Struts security mechanisms.
- Integrating AI-based biometric authentication using facial recognition and voice authentication.
- Case study: Secure and efficient user authentication with AI technologies, ensuring that Struts applications meet modern security standards.
- Learn how AI enhances security through advanced data analytics and biometric verification.

Day 4: Enhancing User Experience with AI

- Overview of user experience UX principles and the role of artificial intelligence in enhancing the UX of Struts applications.
- Integrating AI-driven chatbots into Struts applications to facilitate customer service and automate tasks.
- Implementing personalized recommendations using machine learning algorithms, improving user engagement and satisfaction.
- Enhancing accessibility with AI-powered features, making web applications more inclusive.
- Hands-on session: Develop an interactive AI chatbot integrated with a Struts-based application to improve user interaction.

Day 5: Advanced Topics and Project Work

- Dive into advanced artificial intelligence techniques like sentiment analysis, natural language processing NLP, and compression struts for more efficient performance in Struts applications.
- Implement AI-powered image recognition and processing in web development projects, utilizing modern tools and technologies.
- Project work: Participants apply their knowledge to integrate AI functionalities into a Struts framework-based project, showcasing their new skills in real-world scenarios.
- Presentation and discussion of project outcomes, focusing on the tangible benefits of integrating AI into Struts-based applications.

Conclusion

By the end of this course, participants will have gained practical expertise in integrating artificial intelligence with the Struts framework to build smarter, more efficient web applications. The course will also provide a strong foundation in AI technologies, empowering you to implement AI solutions in business environments. Whether you're seeking to improve user experience or enhance data analytics, this course equips you with the knowledge to leverage AI effectively in Struts-based development.

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