



MICROSOFT TRAINING

AI & Azure in Insurance Course Overview

Learn to leverage AI and Azure solutions to transform the insurance industry. Develop skills for innovative, data-driven insurance operations.

DURATION

48 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This "AI & Azure in Insurance Course Overview" is specifically designed for intermediate-level professionals looking to harness the transformative power of Artificial Intelligence and Microsoft Azure within the dynamic insurance sector. The course delves into how AI, powered by Azure's robust cloud capabilities, can revolutionize traditional insurance operations, from enhanced risk assessment and personalized policy offerings to sophisticated fraud detection and streamlined claims processing. Participants will gain practical insights into leveraging cutting-edge technologies to drive innovation and efficiency. This program is ideal for insurance professionals, IT specialists, and data scientists eager to bridge the gap between advanced technology and real-world insurance applications. It emphasizes strategic thinking and practical implementation, enabling learners to design and deploy AI-driven solutions that directly address critical industry challenges. Upon completion, you will be equipped to contribute significantly to your organization's digital transformation journey, fostering data-driven decision-making and creating competitive advantages in a rapidly evolving market.

Duration	48 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Foundations of AI & Azure for Insurance

- Introduction to AI and Machine Learning in the Insurance Sector
- Overview of Microsoft Azure Services for Data and AI
- Key AI Use Cases in Insurance: Risk Assessment, Claims Processing, Customer Experience, Fraud Detection
- Understanding Insurance Data Landscape and Regulatory Considerations

02 Module 2: Azure Data & Analytics for Insurance Insights

- Data Ingestion and Storage with Azure Data Lake Storage & Azure SQL Database
- Data Transformation and Preparation using Azure Data Factory and Databricks
- Introduction to Azure Synapse Analytics for large-scale insurance data warehousing
- Leveraging Azure Stream Analytics for real-time claims data processing

03 Module 3: Building and Deploying AI Models for Insurance

- Introduction to Azure Machine Learning Studio for model development
- Developing Predictive Models for Risk Scoring and Premium Optimization
- Implementing Machine Learning for Claims Fraud Detection
- Utilizing Azure Cognitive Services for document processing (e.g., policy documents, medical records)
- Model Evaluation, Interpretation, and Responsible AI practices in Insurance

04 Module 4: AI Solution Integration & MLOps in Insurance

- Deploying AI Models as Web Services with Azure Kubernetes Service or Azure Container Instances
- Monitoring and Managing AI Solutions with Azure Monitor and Application Insights
- Implementing MLOps practices for continuous integration/continuous deployment (CI/CD) of insurance AI models
- Integrating AI solutions with existing insurance systems and workflows

05 Module 5: Advanced Topics & Strategic AI in Insurance

- Personalized Customer Experiences with AI: Chatbots, Recommendation Engines
- Leveraging Generative AI concepts for policy creation or claims summaries
- Strategic Planning for AI Adoption in Insurance Organizations

- Case Studies: Successful AI Implementations in the Insurance Industry

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Insurance AI Solutions Architect**
- > **Claims Analytics & Fraud Detection Specialist**
- > **Underwriting Automation Engineer**

FREQUENTLY ASKED QUESTIONS

Q: What specific Azure AI and data services will I gain hands-on experience with to address common insurance industry challenges?

This course provides practical experience with core Azure AI services such as Azure Machine Learning Studio for model development, Azure Cognitive Services for document intelligence, and Azure Databricks for data processing. You will also work with Azure's robust data platform services including Azure Data Lake Storage, Azure SQL Database, and Azure Synapse Analytics to build comprehensive data pipelines crucial for insurance applications like fraud detection, risk scoring, and claims automation.

Q: How will this intermediate-level course equip me to drive tangible business value, such as reducing claims processing time or enhancing fraud detection rates, within an insurance organization?

The curriculum is structured to move beyond theory, focusing on practical implementation. You will learn to design, build, and deploy AI models specifically tailored for insurance use cases, directly addressing challenges like optimizing risk assessment, predicting claims severity, and identifying fraudulent activities. By the end of the course, you'll be able to propose and implement AI solutions that can significantly reduce operational costs, improve efficiency, and enhance accuracy in key insurance processes, thereby delivering clear business value.

Q: Are there any recommended prerequisites in terms of foundational AI, machine learning, or Azure knowledge to maximize my learning experience in this course?

While this is an intermediate course, a basic understanding of cloud computing concepts and an introductory familiarity with data science or machine learning principles would be beneficial. Prior exposure to general programming concepts (preferably Python) and basic SQL knowledge will also enhance your ability to grasp the technical aspects of the Azure services and AI model development covered in the curriculum.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors

have empowered thousands of professionals across East Africa.

15+

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READY TO ENROL?

Take the next step in your technology career.

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