

Course Duration: 4 hours (0.5 Day)

Amazon Comprehend

Amazon Comprehend is a natural-language processing (NLP) service that you can use to extract valuable insights and connections from text. In this fundamental course, you will learn about the benefits, features, typical use cases, technical concepts, and costs of Amazon Comprehend. Through **hands-on exercises and practical use cases**, learners will gain the skills needed to **build, integrate, and optimize NLP solutions** using Amazon Comprehend.

Course objectives

By the end of this course, participants will be able to:

- Describe the basic concepts of Amazon Comprehend.
- Describe the typical use cases and architectures associated with an Amazon Comprehend solution.
- Recognize the benefits and understand the cost structure of Amazon Comprehend.
- Specify what it would take to implement Amazon Comprehend in a real-world scenario while implementing a demonstration of Amazon Comprehend in the AWS Management Console.

Prerequisites

- AWS Technical Essentials
- Familiarity with **text data processing** and **NLP concepts** (recommended but not mandatory).

Target Audience

- Data Scientists & ML Engineers looking to integrate NLP solutions.
- Developers & Cloud Engineers working on AWS-based text analytics applications.
- Business Analysts & Product Managers seeking to derive insights from customer feedback.
- Security & Compliance Professionals ensuring PII detection in text data.
- Healthcare, Finance, and E-commerce Professionals automating document processing.

Course outline

Module 1: Introduction to Amazon Comprehend

- What is Amazon Comprehend?
- Overview of NLP and its business applications
- Key features and capabilities of Amazon Comprehend

Module 2: Benefits of Amazon Comprehend

Module 3: Sentiment Analysis with Amazon Comprehend

- How sentiment analysis works
- Detecting positive, negative, neutral, and mixed sentiments
- Applications in customer service and brand monitoring

Hands-on: Analyzing sentiment in news documents

Module 4: Amazon Comprehend costing