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- ▼ **Welcome and Overview** ⋮
-  **Pre-Course Survey** ⋮
-  **Trends in Cloud Computing**
-  **How to Complete Lab Exercises** ⋮
-  **Course Support** ⋮
-  **General Discussions** ⋮

- ▼ **Module 1 - Welcome to AWS Academy NLP** Complete All Items ⋮
-  **Student Guide**
-  **Welcome to AWS Academy NLP**
-  **What is NLP?**
-  **Module 1 Knowledge Check** ⋮
100 pts Score at least 70.0

Complete All Items

▼ **Module 2 - Introduction to Natural Language Processing (NLP)**



Student Guide



Introduction to NLP



Common NLP tasks



Walkthrough of an NLP problem



Lab 2.1 - Applying ML to an NLP problem

100 pts



Evolution of NLP architectures



Module 2 Knowledge Check

100 pts Score at least 70.0



Complete All Items

▼ **Module 3 - Processing Text for NLP**



Student Guide



Processing text for NLP



Text processing overview



Getting text



Lab - 3.1 - Extracting text from the web

	Text preprocessing	
	Lab - 3.2 - Processing Text	
	Part 1 - Vectorizing text	
	Part 2 - Vectorizing text	
	Lab 3.3 - Encoding and Vectorizing Text 100 pts	⋮
	Advanced processing	
	Storing and visualizing unstructured data	
	Module 3 Knowledge Check 100 pts Score at least 70.0	⋮

▼ Module 4 - Implementing Sentiment Analysis		Complete All Items ⋮
	Student Guide	
	Implementing Sentiment Analysis	
	Identifying the steps for text processing	
	Examining the algorithms for sentiment analysis	
	Lab 4.1 - Implementing Sentiment Analysis 100 pts	⋮



Module 4 Knowledge Check

100 pts Score at least 70.0



▼ Module 5 - Introducing Information Extraction

Complete All Items



Student Guide



Introducing Information Extraction



Types of information extraction



Implementing information extraction



Lab 5.1 - Implementing Information Extraction

100 pts



Lab 5.2 - Working with Entities

100 pts



Module 5 Knowledge Check

100 pts Score at least 70.0



▼ Module 6 - Introducing Topic Modeling

Complete All Items



Student Guide



Part 1 - Introduction to topic modeling



Part 2 - Introduction to topic modeling

	Identifying the approach	
	Part 1 - Implementing topic modeling	
	Part 2 - Implementing topic modeling	
	Lab 6.1 - Implementing Topic Modeling with Amazon Comprehend 100 pts	⋮
	Lab 6.2 - Implementing Topic Modeling with NTM 100 pts	⋮
	Lab 6.3 - Implementing Topic Modeling 100 pts	⋮
	Module 6 Knowledge Check 100 pts Score at least 70.0	⋮

▼ Module 7 - Working with Languages		Complete All Items ⋮
	Student Guide	
	Module Overview	
	Working with languages	
	Detecting and translating languages	
	Transcribing and vocalizing text with AWS services	
	Lab 7.1 - Implementing a multi-lingual solution 100 pts	⋮



Module 7 Knowledge Check

100 pts Score at least 70.0



▼ Module 8 - Working with Generative AI

Complete All Items



Student Guide



What is generative AI?



Demo: Amazon Bedrock Overview



Introducing foundation models and large language models



Transformer architecture



Configuration parameters to control the LLMs output



Introducing prompt engineering



Demo: Use LLMs to Perform NLP Tasks



Adapting LLMs



Application integration



Module 8 Knowledge Check

100 pts Score at least 70.0



▼ **Module 9 - Course Wrap-up**



Student Guide



Capstone Project

100 pts



Course Wrap-up



Bridging to certification

▼ **Sandbox**



Instructor Sandbox

▼ **Course Resources**



Certification Discussion



Explore job opportunities with the AWS Educate Job Board



Practice Questions in AWS Skill Builder

▼ **Feedback Survey**



End of Course Feedback Survey

▼ Badges and Completion Certificates [Badges]

Prerequisites: Module 1 - Welcome to AWS Academy NLP, Module 2 - Introduction to Natural Language Processing (NLP), Module 3 - Processing Text for NLP, Module 4 - Implementing Sentiment Analysis, Module 5 - Introducing Information Extraction, Module 6 - Introducing Topic Modeling, Module 7 - Working with Languages, Module 8 - Working with Generative AI

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