



NATURAL LANGUAGE PROCESSING

FROM FUNDAMENTALS TO REAL-WORLD APPLICATIONS

BY ELITE INDIGO

Enhance your team's proficiency and master the art of applying natural language processing (NLP) from fundamentals to real-world solutions.

Walk away with practical "quick wins" to implement NLP techniques and drive impactful results immediately.



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NLP : From Fundamentals to Real-World Applications

• Synopsis

This hands-on training program provides participants with a deep understanding of Natural Language Processing (NLP) concepts, techniques, and applications. Through practical exercises and real-world case studies, participants will learn how to process, analyze, and derive insights from text data using NLP models. By the end of the training, attendees will be equipped with the necessary skills to implement NLP solutions in their respective domains.

• What You'll Learn

Participants will gain foundational and advanced knowledge in NLP, including text preprocessing, word embedding, and information extraction. They will develop skills in building text classification models, topic modeling, and text summarization. Additionally, they will explore real-world applications like sentiment analysis and customer feedback processing. The training will culminate in a hands-on project where participants apply their knowledge to build an end-to-end NLP solution.

• Who Should Attend

This training is ideal for data scientists, machine learning engineers, software developers, business analysts, and researchers looking to enhance their skills in NLP.

• Prerequisite

Basic understanding of python programming.

• Methodology

Theoretical insights with hands-on practical exercises.

• Duration

2-day Full Workshop.



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• Course Outline & Schedule (Day 1)

Duration	Details
3 Hours	1. Introduction to Natural Language Processing o Overview of NLP and its applications across industries o Understanding the role of AI in text processing
	2. Setup the Environment o Installing and configuring Python libraries for NLP o Setting up Jupyter Notebook for experimentation
	3. Text Preprocessing Techniques o Tokenization, stemming, and lemmatization o Stopword removal and text normalization o Handling noisy and unstructured text data
1 Hour	Lunch
4 Hours	4. Word Embeddings and Representations o Understanding word embeddings o Introduction to contextual embeddings
	5. Named Entity Recognition (NER) & Part-of-Speech (POS) Tagging o Identifying entities in text (names, locations, organizations, etc.) o Implementing POS tagging using NLP libraries
	6. Information Extraction o Extracting structured data from unstructured text o Using rule-based and ML-based approaches for extraction

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• Course Outline & Schedule (Day 2)

Duration	Details
3 Hours	1. Building a Text Classification Model <ul style="list-style-type: none">o Introduction to supervised learning for text classificationo Training and evaluating a sentiment analysis model
	2. Topic Modeling and Text Clustering <ul style="list-style-type: none">o Understanding topic modeling techniqueso Clustering similar documents for pattern detection
	3. Text Summarization <ul style="list-style-type: none">o Extractive vs. abstractive summarization techniqueso Using NLP models to generate concise summaries
1 Hour	Lunch
4 Hours	4. Analyzing Customer Feedback <ul style="list-style-type: none">o Sentiment analysis and intent detection for customer insightso Case studies on real-world customer feedback analysis
	5 .Project: End-to-End NLP Application Development <ul style="list-style-type: none">o Participants will work on a real-world NLP projecto Applying learned techniques to build and present their NLP solutions

Disclaimer:

The use cases presented in this workshop are subject to change based on advancements in OpenAI's API capabilities and participant needs



ABOUT ELITE INDIGO

We are dedicated to empowering businesses to achieve their full potential. With a team of seasoned professionals and a wealth of industry experience, we offer tailored consulting services to help organizations overcome challenges and seize opportunities.

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