



# NLP Using Python Certification Training

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## About the Program

Intellipaate's NLP training using Python and NLTK is designed by leading AI experts. By enrolling in this NLP course, you will become proficient in text processing and classifying texts using Machine Learning algorithms. Also, you will thoroughly understand concepts such as Natural Language Processing, text mining, text classification, tokenization, lemmatization, sentence structure, sequence tagging, language modeling, and more using Python's Natural Language Toolkit (NLTK). Further, you will design your own text classifier with the help of practical demonstration sessions conducted at the end of each module in this NLP certification training.

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## About Intellipaate

Intellipaate is one of the leading e-learning training providers with more than 600,000 learners across 55+ countries. We are on a mission to democratize education as we believe that everyone has the right to quality education.

Our courses are delivered by subject matter experts from top MNCs, and our world-class pedagogy enables learners to quickly learn difficult topics in no time. Our 24/7 technical support and career services will help them jump-start their careers in their dream companies.

# Key Features



**20 HRS INSTRUCTOR-LED  
TRAINING**



**LIFETIME ACCESS**



**40 HRS REAL-TIME  
PROJECT WORK**



**INDUSTRY-RECOGNIZED  
CERTIFICATION**



**24/7 TECHNICAL SUPPORT**



**FLEXIBLE SCHEDULING**



**JOB ASSISTANCE THROUGH  
80+ CORPORATE TIE-UPS**

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# Career Support



## **SESSIONS WITH INDUSTRY MENTORS**

Attend sessions from top industry experts and get guidance on how to boost your career growth



## **MOCK INTERVIEWS**

Mock interviews to make you prepare for cracking interviews by top employers



## **GUARANTEED INTERVIEWS & JOB SUPPORT**

Get interviewed by our 400+ hiring partners



## **RESUME PREPARATION**

Get assistance in creating a world-class resume from our career services team



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## Why take up this course?

- According to Indeed, the average salary of an NLP professional is US\$138,680/year.
- NLP market is speculated to grow to US\$26.4 billion by 2024 with a CAGR of 21%.

One of the principal disciplines of AI, Natural Language Processing uses analysis tools to read from large amounts of natural language data to arrive at meaningful conclusions. It involves using the ML algorithms to recognize, categorize, and extract natural language rules to transform unstructured language data into a form that computers can understand.

Now, the current job openings in the field are quite high w.r.t. their supply. Therefore, by enrolling in this NLP course, you will become eligible to apply for high-paying jobs.

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## Who should take up this course?

- Those who know to program
- Python Developers
- Business Analysts
- Data Scientists
- Analytics Managers or Team Leads
- Anyone interested in learning text mining techniques

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# Program Curriculum

## NLP Training Course Content

- **OVERVIEW OF NATURAL LANGUAGE PROCESSING & TEXT MINING**

Introduction to Natural Language Processing (NLP), introduction to text mining, importance and applications of text mining, how NLP works with text mining, writing and reading to/from word files, the OS Module, and the Natural Language Toolkit (NLTK) environment

***Hands-on Exercise:** Learning Natural Language Toolkit and NLTK Corpora, reading and writing .txt files from/to a local drive, and reading and writing .docx files from/to a local drive*

- **TEXT MINING, CLEANING, & PRE-PROCESSING**

Various tokenizers, tokenization, frequency distribution, stemming, POS tagging, lemmatization, bigrams, trigrams, and ngrams, and entity recognition

***Hands-on Exercise:** Learning word tokenization with Python regular expressions, sentence tokenizers, stopword removal, bigrams, trigrams, and ngrams, named entity recognition, and POS tagging*

- **TEXT CLASSIFICATION**

Overview of Machine Learning, words, term frequency, count vectorizer, inverse document frequency, text conversion, confusion matrix, and the Naive Bayes classifier

***Hands-on Exercise:** Demonstration of count vectorizer, words, term frequency, inverse document frequency, text conversion, text classification, and confusion matrix*

- **SENTENCE STRUCTURE, SEQUENCE TAGGING, SEQUENCE TASKS, & LANGUAGE MODELING**

Language modeling, sequence tagging, sequence tasks, predicting the sequence of tags, syntax trees, context-free grammar, chunking, automatic paraphrasing of texts, and chunking

***Hands-on Exercise:*** *Demonstration of syntax trees, chunking, automatic paraphrasing of texts, and chunking*

- **INTRODUCTION TO SEMANTICS & VECTOR SPACE MODELS**

Distributional semantics, traditional models, tools for sentence and word embeddings, and an overview of topic models

***Hands-on Exercise:*** *Embedding words and sentences*

- **DIALOG SYSTEMS**

Introduction to task-oriented dialog systems, natural language understanding, and the dialog manager

***Hands-on Exercise:*** *Designing your own dialog system*



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# Project Work

## NLP Project

**Project:** Analyzing Movie Review Data with NLP

**Industry:** Entertainment

**Problem Statement:** Perform sentiment analysis on a given dataset to analyze movie reviews

**Project Description:** In this project, as an NLP Engineer, your job is to pre-process the data using tokenization and lemmatization and then develop an understanding of the different components of the data by identifying different parts of speech and named entities in the text. After having a sufficient understanding of the attributes and syntactic structure of the text, you will carry out a sentimental analysis task on the data by classifying whether movie reviews are positive or negative.

### Highlights:

In this project, you will edit the dataset '**Movie Reviews**,' which is included in NLTK Corpus. The dataset contains multiple positive and negative reviews retrieved from imdb.com.

# Certification

After the completion of the course, you will get a certificate from IntelliPaat.



## CERTIFICATE OF COMPLETION

This certificate is awarded to

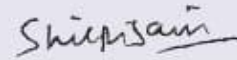
Your Name

Who has successfully completed

**Course Name**

Fulfilling all the requirements stipulated by IntelliPaat to achieve professional excellence.

Issued Date: Month XX, XXXX



Mrs. Shilpi Jain  
Director,  
intellipaate Software Solutions Pvt. Ltd.

VERIFIED  
CERTIFICATE

Certificate ID #94658291

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## Success Stories



### **Kevin K Wada**

Thank you very much for your top-class service. A special mention should be made for your patience in listening to my queries and giving me a solution, which was exactly what I was looking for. I am giving you a 10 on 10!



### **Sampson Basoah**

The Intellipaateam helped me in selecting the perfect course that suits my profile. The whole course was practically oriented, and the trainers were always ready to answer any question. I found this course to be impactful. Thank you.



### **Sugandha Sinha**

Intellipaate's course instructors were excellent and well-versed with their concepts. The support team solved all my queries within the promised 24 hours. They explained all topics and concepts well, and the course material was updated and included videos, exercises, etc. I would highly recommend Intellipaate to those who wish to excel in the IT field.



### **Vishal Pentakota**

The best part of this course was the series of hands-on demonstrations that the trainer performed. Not only did he explain each concept theoretically, but he also implemented all those concepts practically. Great job! A must go for beginners.

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## CONTACT US

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If you have any further queries or just want to have a conversation with us, then do call us.

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