

Advanced Generative AI

through Natural Language Processing



▶ **Course Curriculum**



About AiiTE



Welcome to AiiTE Academy, where we help you master the latest IT skills for a successful career in technology. Established in April 2019, we are Chennai's top IT training academy, offering high-quality courses in machine learning, artificial intelligence, full-stack development, and quality assurance testing. Our expert instructors provide hands-on training to ensure you gain the practical knowledge needed to excel. With flexible learning options, AiiTE Academy is committed to preparing you for success in the fast-paced IT industry.



Why Choose AiiTE



Hands-on Learning



Career Focused Training



Flexible Learning Options



Expert Trainers



Our Vision

To be recognized as the best IT training institute in Chennai, known for our innovative teaching methods and commitment to producing industry-ready professionals.



Our Mission

To equip students with cutting-edge IT skills and provide them with the knowledge needed to excel in their careers.

SINCE

55+

Certified
Courses

2

250+

Placement
Tieups

0

9000+

Students

1

45+

Expert
Trainers

100%

Placements
Assistance

9

6500+

Successful
Placements

Introduction to Python for NLP

- Python Basics and Data Structures
- Working with Lists in Python
- Introduction to NumPy and Pandas for Data Handling
- Introduction to Streamlit for Building Interactive Web Apps

Fundamentals of Natural Language Processing

- Overview of Natural Language Processing (NLP)
- Text Pre-processing Techniques
- Tokenization and Lemmatization

Tools and Libraries for NLP

- Introduction to NLTK (Natural Language Toolkit)
- Using SpaCy for Advanced NLP Tasks
- Introduction to Hugging Face Transformers for State of the art Models

Sentiment Analysis and Text Classification

- Techniques for Sentiment Analysis
- Implementing Sentiment Analysis with Python

Applications Of Generative AI In Industry

- Real-world Applications of NLP and Generative AI
- Case Studies in Healthcare, Finance, and Customer Service
- Business Opportunities and Challenges

Project - Dialogue Systems And Chatbots

- Building Chatbots with NLP
- Dialog Management and Response Generation
- Project: Developing a Functional Chatbot

Final Project

- Project Presentation and Demonstration
- Peer Feedback and Evaluation
- Reflection on Learning Outcomes and Future Applications

Additional Resources

- Recommended Readings and Online Materials
- Community Resources and Forums
- Tools and Software for NLP Development

Power BI

- Implementation of Power BI

Thank You!

We're excited at the opportunity to work together and make this training program a success. Let's put our heads together and create an engaging and rewarding learning experience that Will benefit everyone involved.

Connect With Us

 95514 11693 | 90928 18068

 98846 67742

 www.aiiteacademy.in

Enroll Now