

Training Program on Artificial Intelligence (24th Apr, 2023 to 24th May, 2023)

Artificial Intelligence (AI) is a branch of computer science that focuses on creating intelligent machines capable of performing tasks that typically require human intelligence. These tasks include problem-solving, learning, speech recognition, visual perception, and decision-making. A 30 Days Artificial Intelligence Masterclass was conducted for the undergraduate students from 24th Apr, 2023 to 24th May, 2023. Dr. Souvik Ganguli from the Department of Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala was the coordinator for the program. The program link is shared for reference: <https://www.youtube.com/watch?v=7xkf7n8EegE>

The collage consists of five screenshots from a YouTube video series:

- Top Left:** Video title "Artificial Intelligence" with subtitle "New Era New Technology".
- Top Right:** Video title "Introduction of Artificial Intelligence".
- Middle Left:** Text defining AI as a branch of computer science. It compares a "Non-intelligent machine" (a watch and motorcycle) with an "Intelligent machine" (a car and a person). The intelligent machine is described as being able to think, make decisions, and do new things.
- Middle Right:** A list of "TOPICS COVERED - DAY 23 TO 30":
 - Day 23 Introduction of computer vision [how to install computer vision libraries]
 - Day 24 Face and eye detection in opencv.
 - Day 25 Age and gender detection
 - Day 26 Brain tumor detection using CNN
 - Day 27 Face recognition using opencv
 - Day 28 Face mask detection using opencv
 - Day 29 Hand gesture detection opencv
 - Day 30 Emotion recognition through the facial express.
- Bottom Left:** Video title "TYPES OF AI". It describes two types:
 - 1. Purely Reactive:** These machines do not have any memory or data to work with, specializing in just one field of work.
 - 2. Limited Memory:** These machines collect previous data and continue adding it to their memory. They have enough memory or experience to make proper decisions.
- Bottom Right:** Video title "How Does AI work?".

The bottom row shows two screenshots of code editors:

- Left:** A code editor showing Python code for lemmatization using NLTK. The code includes imports for nltk, nltk.stem, nltk.tokenize, nltk.tokenize.word_tokenize, nltk.tokenize.punkt, nltk.tokenize.punkt.PunktWordTokenizer, nltk.tokenize.punkt.PunktSentenceTokenizer, nltk.tokenize.punkt.PunktWordTokenizer, nltk.tokenize.punkt.PunktSentenceTokenizer, nltk.tokenize.punkt.PunktWordTokenizer, and nltk.tokenize.punkt.PunktSentenceTokenizer. It also shows the execution of the code.
- Right:** The Anaconda Navigator interface showing a list of installed and available environments and packages.