CHATBOT PROJECT

By Python

For - Artificial Intelligence and Machine Learning with Python
Course provided by Nielit

Ranvir kr. Sharma
Ranvir.sharma088@gmail.com

Project

Title - Chatbot with Python

Objective - Chatbots allow businesses to connect with customers in a personal way without the expense of human representatives. For example, many of the questions or issues customers have been common and easily answered.

Dataset - https://www.kaggle.com/datasets/grafstor/simple-dialogs-for-chatbot

Used library –

- import nltk - use for human language data and natural language process

- import string - provide various string related constants, function, classes, also coordination ASCII letters

- import pandas - for working with dataset, data frame and manipulate the data frame, read the data set

- import nlp_utils

- import matplotlib.pyplot - library and create plots

- Import sklearn.metrics.pairwise - for implement a range of MI, pre-processing, cross validation and visualization algorithms

SDLC - A software life cycle model (also termed process model) is a pictorial and diagrammatic representation of the software life cycle. A life cycle model represents all the methods required to make a software product transit through its life cycle stages. It also captures the structure in which these methods are to be undertaken.

1) Planning and requirement analysis
2) Design
3) Develop
4) Testing
5) Deployment
6) Maintenance

Coding – attached .ipynb and .txt extention file

1) Chatbot.ipynb
2) Dialogs.txt

Problem Faced – faced issue with the "sentimentintenceanalyser" and because of this unable to check the positive or negative Query and Answers.