



Foundations

of AI

Practical  
session

→ Initial development of AI

Ektphone → Eliza chatbot

learning Data Structure  
↳ [Graph] ↳

DSA

Data Structures

and

Algorithms

Essential

Program work  
(on Data)

We need a  
structure.

to communicate properly.

# Python DS

System  
defined

User defined

int

by default

$x = 5$

arrays

[1, 2, 3, 4]

list in  
Python.

## DS/Algo.

System def

Int

List/tupple

User

char

set/ Dictionary

~~algo~~ def

str

array / stack

queues

Hash Maps.

Foundational

advanced ↴

[Trees, graphs]

Eg:  
↳

library

↳ 5 books

↳ No sort need

(But).

5000

books

↳ sort is need



[Scale].

We need efficiency

time complexity.

space complexity.

Tool Recommendation

DSA Insight.

## AI / ML :

