

04-11-2020

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LECTURE - 1

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PYTHON: It is a widely used high-level Programming language for general-purpose Programming and created by GUIDO VAN ROSSUM and first released in 1991 at NRI Netherland.

It features a dynamic type system and automatic memory management and supports multiple programming paradigms, including object-oriented, imperative, functional Programming and procedural styles. It has a large and comprehensive standard library.

Two major versions of python are currently in active <sup>used</sup> are:

↳ PYTHON 3.x is the current version and is under active development.

↳ PYTHON 2.x is the legacy version and will receive only security updates until



2020. No new features will be implemented.

②

'R' LANGUAGE :

- ↳ Data Science
- ↳ Machine learning
- ↳ Artificial Intelligence
- ↳ Deep learning
- ↳ Statistics.

- These all can  
be performed in  
R language.

'PYTHON' LANGUAGE :

- ↳ Data Science
- ↳ Machine learning
- ↳ Artificial Intelligence
- ↳ Deep learning
- ↳ Statistics
- ↳ Desktop Applications
- ↳ Web Applications
- ↳ Database Applications
- ↳ Network Applications
- ↳ Game Development

- All these are  
Performed in  
PYTHON  
language.



NOTE :

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↳ Mobile Application's can't be executed & Performed.

## MODULE - 1 : PYTHON

↳ Basics

↳ object oriented programming concepts.

↳ Web Application development (required part)

↳ NEWLY ADDED.

## MODULE - 2 : STATISTICS

↳ Descriptive statistics.

↳ Probability along with Numpy, Pandas.

↳ Inferent calculation

## MODULE - 3 : EDA (EXPLORATORY DATA ANALYSIS)

↳ Numpy, Pandas

↳ Mat Plot

↳ Plotly

↳ DS project (1 week for completion)

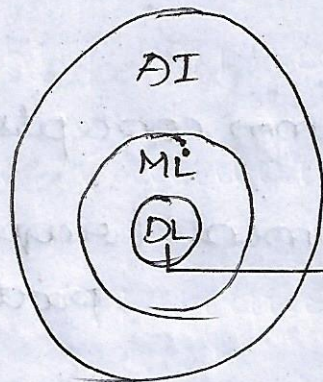
↳ Web Scrapping (Text data entry & Images)



MODULE - 4: MACHINE LEARNING

MODULE - 5: DEEP LEARNING

↳ Includes Natural language Programming  
Computer Vision.



Includes Neuron Development (Mathematically)

AGI - Artificial General Intelligence.

ABILITY

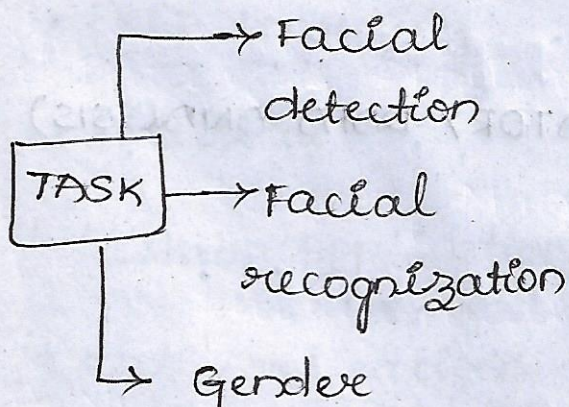
SEE

NATURAL LANG.

DECISION

PROCESS

MAKING



↳ lang.  
translation

↳ SPAM/HAM.

↳ Read & Speak

↳ Drive

↳ Ride

↳ PUBG.



## PROGRAMMING IN PYTHON: ⑤

\* I/P → `Print("Hello")`

O/P → Hello.

\* I/P → `name = input("Enter your name: ")`

`Print("Hello { }, Welcome!".format(name))`

O/P → Enter your Name : PAVANI NADELLA.

Hello PAVANI NADELLA , Welcome!