

## **A REPORT OF THREE DAYS WORKSHOP ON PYTHON AND DATA ANALYTICS.**

This was the three days workshop on **python and data analytics** organized by department of **INFORMATION TECHNOLOGY** at MALLAREDDY COLLEGE OF ENGINEERING & TECHNOLOGY on **31<sup>st</sup> January ,1<sup>st</sup> and 2<sup>nd</sup> February 2019** for all the b.tech 2-2 students 2018-2019 batch.

To explore the power and simplicity of python & data science. This workshop was appreciated by all the students as they were able to add another programming language in their technical skill set. The trainer Mr. Vaibhav Jaiswal is the team member of organization,has given the mix of theory and practical knowledge of python & data analytics.

**DR. VSK REDDY**, principal, MRCET inaugurated the workshop , also motivated the students with his speech and explained that these kind of workshops are beneficial for their upcoming placements and technical knowledge.



**Dr. VSK REDDY, motivating the students**



## **DAY 1: 31<sup>st</sup> January**

Introduction to python and students were taught that python is simple programming language compared to other programming languages, and the following topics were covered.

1. What is python?
2. Applications of python (web applications, web frameworks, GUI based desktop applications etc.)
3. Data types in python with programs.
4. Loops & conditions in python with programs.



Students executing the programs

## DAY 2: 1<sup>st</sup> February 2019

Exception Handling, Multiple Exception Handling, information about Data Science in real life and how python is useful, Sample video based on Data Science which is performed by Vaibhav sir.

Following topics were covered:

1. String manipulation.
2. Lists in python with program.
3. Tuples .
4. Dictionaries in python with program.
5. Sets in python.
6. Range, Functions, Variables in python.
7. Modules in python.
8. Introduction to data analytics.
9. Applications of data analytics.

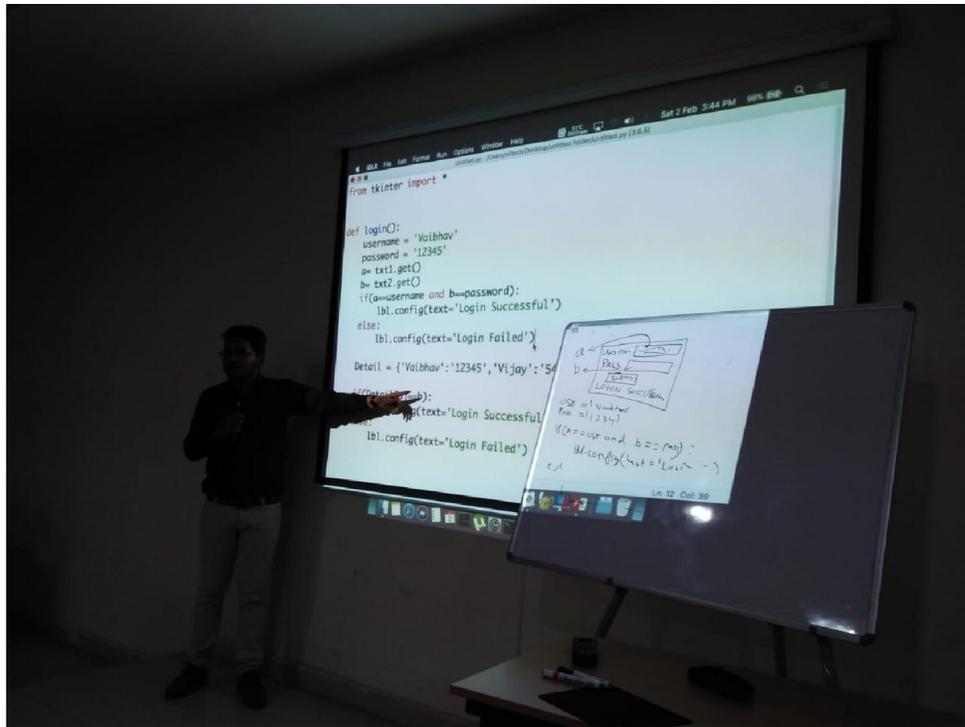
- 10.Connectivity of machine learning & artificial intelligence with data science.
- 11.Use of data science in real time applications.
- 12.M-2 and P&S are the base subjects to understand Data science.
- 13.Writing own programs on whether he/she is eligible for voting or not & program for calculator which does subtraction, multiplication, addition and operations etc.
- 14.Showed a video of the dart project which was done by Mr.Vaibhav and team and explained the project.



Students working on programs under guidance of Mr. Vaibhav Jaiswal

### **DAY 3: 2<sup>nd</sup> February 2019**

1. Explained how system identifies apple & orange based on texture, shape and weight.
2. Explained the mechanism how the Artificial Intelligence is trained by programs.
3. Explained the importance of AI and told Microsoft has created an AI which itself creates another AI.
4. Exception handling in python with programs.
5. Numpy, Matplotlib, Classifier, Scikit learn.
6. GUI programming in python
  - PYQT
  - PYGTK
  - PYGAME
  - TKINTER
  - WXPYTHON
7. GUI programs on:
  - Configuring widgets.
  - Buttons.
  - Multiple widget.
  - Controlling widget appearance.
  - Use of pack.
  - Grid method.
  - Text box input.
  - Display image.
8. Lastly a task was given to students to make a login verification system using GUI program.



Mr. Vaibhav Jaiswal explaining the students

Also the CEO of organization told the importance of basics in python and also shared his technical knowledge.

**Mr. Dr.Gauri ganesh** ,professor, Mr. Prabhat and Miss. Manisha , students of the department gave the vote of thanks to team on behalf of all the students.

At the end of workshop students were happy knowing that they were now able to program with a new & simple programming language Python.





**THANKS**