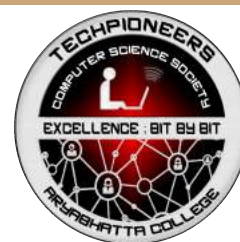


## In-House Skill Development Activity:

## PYTHON PROGRAMMING WORKSHOP

27<sup>th</sup> & 29<sup>th</sup> September 2018

## Insights on the Workshop

The poster is for a Python Programming Workshop. It features a blue background with abstract shapes and the Python logo. The text includes the college name, the society name, the event title, dates, times for three sessions, and the venue. Contact information is provided at the bottom left.

**ARYABHATTA COLLEGE**  
UNIVERSITY OF DELHI

**TECHPIONEERS: COMPUTER SCIENCE SOCIETY**

PRESENTS IT'S 2<sup>nd</sup>  
SKILL DEVELOPMENT ACTIVITY (IN-HOUSE)

**Python**  
Programming Workshop

27 <sup>th</sup> Sept'18 <b>Session 1</b> 1:30 - 3:00 pm	29 <sup>th</sup> Sept'18 <b>Session 2</b> 9:30 - 11:00 am	29 <sup>th</sup> Sept'18 <b>Session 3</b> 11:30 - 1:30 pm
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**Venue**  
Old Computer Lab  
(Report 15 min before start of the session)

Contact:  
Yash Sharma (971-826-8388)  
Ishant Malik (863-025-2808)

## **INTRODUCTION**

TechPioneers, the Computer Science Society of Aryabhata College, University of Delhi organized a 2-day skill development workshop on Python Programming in the month of September.

The workshop aimed at providing the learner with the basic knowledge of programming with Python and hands on experience in the Python Programming Language. Around 40 students participated in the workshop. The resource persons of the workshop were, Yash Sharma and Ishant Malik, students 3<sup>rd</sup> year of the Department of Computer Science. The workshop was actively supported by Aman Saini and Akanksha Shukhramani, (undergraduate students of the department) giving a hands-on session.

## **OBJECTIVE OF THE WORKSHOP**

The main objective of the Python Workshop was to attract the students towards the beauty and simplicity of the Python Programming Language and motivate them to learn more. With the consensus of the audience, the “Object Tracking and Detection” was chosen as the main project, based on which the flow of the workshop was planned.

## **PREREQUISITES**

Students were required to have prior knowledge of any Programming Language.

## **TARGET AUDIENCE**

The workshop was organized for the students of B.Sc. (H) Computer Science Department, Aryabhata College, University of Delhi. Few BA (Prog ) students also participated in the workshop.

Further sessions would be organized for other interested students of the college (and outside the college).

## PROCEEDINGS

The workshop was conducted in three sessions.

In the first session, held on 27th September 2018, the participants were taught the Fundamentals of Programming in Python. It consisted of the following topics:

- Telling students “Why to learn Python?”
- Pros and Cons of the Programming Language.
- Installing Python into your system.
- Python REPL
- Executing Python script from Terminal.
- Looping statements in Python
- The basics of python like variables, keywords, identifiers.
- Working with Python Data Types like strings, lists, tuples and dictionaries.

At the end of the first session the audience was given a problem that they were required to solve on their own.

The next two sessions were conducted on 29<sup>th</sup> September 2018. These sessions included some advanced programming in python. It consisted of:

- Functions in Python.
- Modules in Python.
- What is Object Tracking?
- How to detect and track Objects.
- Program to track objects

At the workshop concluded with a short quiz.

All participants filled a feedback form. They found the workshop to be resourceful and informative.

## SOME CLIPS FROM THE WORKSHOP

