



GTU OSTC

Open Source Technologies Club

GUJARAT TECHNOLOGICAL UNIVERSITY
OPEN SOURCE TECHNOLOGIES CLUB (OSTC)



2 Days Bootcamp on Python

Gujarat Technological University's Open Source Technologies Club has created **GTU Python User Group** (<http://www.meetup.com/gtupython/>). GTU organized Python User Group Orientation Program and Python Awareness Event on 4th April 2015 successfully with 59 participants. Now, GTU organize Two days Bootcamp on Python on 11th-12th April 2015

This Bootcamp/workshop will cover an intense 13-hour curriculum design to give beginners complete, basic programming skills to use in their studies or workplace, with a focus on data science applications. Over the course of the bootcamp, participants will learn the Python programming language through lectures and activities. It will be a hands on session starting with a little presentation in the beginning, though out the session we intend to focus on each and every participant attending the bootcamp so that their goal of learning Python will fulfil.

<Date>: 11th and 12th April 2015

<Venue>: GTU, 1st Floor, Block No 6, Nr. Boys Hostel Gate, LDCE Campus, Navrangpura, Ahmedabad ([Map](#))

<Time>: 10:30am to 5:00pm

<Experts> Manoranjan Padhy & Harsh Dattani from Python User Group, Vadodara

Interested Students/Faculties can apply for Workshop.

<Fees>: No fees for GTU Students/Faculties.

<Register online at>: <http://goo.gl/xSQiWN>

(Note: All participants, who had already given confirmation-RSVP on GTU Python Meetup, are also require to register through this link).

Since limited seats are available. Kindly register at the earliest. Apply before 09/04/2015, 5:00PM. Selected Participants will get confirmation by email on or before 5 P.M. 10/04/2015

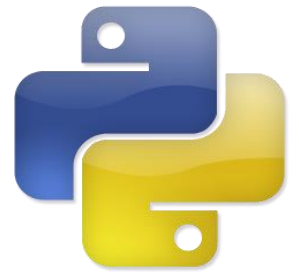
<Prerequisites>: Laptop with Python 2.7.X(<https://www.python.org/ftp/python/2.7.9/python-2.7.9.msi>) and GitHub(<https://windows.github.com/>) installed. Linux and Mac users already have Python and Github installed in their PCs.



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<Schedule>:

Day 1(11.04.2015)

Day 1 will be focus upon the basics of Python so that from 'Day 2' participants can look into libraries of Python used for various tasks like Web Components, Data Science, Networking e.t.c. Instead of creating different programs for each topic, there will be the same program and implement things in it so more understanding of the topic is created.

- Introduction to Python. Different versions of Python.
- Why use Python and where it is used?
- How to launch and run Python by different methods.
- Learning usage of Variables, Expressions and Statements in Python. This will be followed by a coding task to fetch user input via dialog box resulting into the first basic program in Python.
- Learning the requirement and coding of a Function in Python. This will be followed by implementation of function in the programme created earlier.
- Learning usage of Iterations and Strings. Once participants implement the currently learned things in the previous program they will have one standard Python Programme in Python. COLLABRATING & CODING TASK Introduce GitHub to participants and explain its importance and how a team can collaborate and work using GitHub.
- Formulate 10 teams having 5 members in each team to code any application implementing the things they learned in Python throughout the day using GitHub. Participants will get the time till the next day to do so.

Day 2(12.04.2015)

- Reviewing applications designed during Day 1 and giving feedback to the participants for the work done by them and how further it can be improved.
- Introduction to Libraries in Python. What is the need of it? How to use this libraries for various tasks ranging from Web Application to Networking?
- Usage of Files in Python
- Networked programs via usage of Python(Simple Python Server, Parsing HTML, Reading binaries) and Network Anomalies.
- Walk through the Django and Flask Framework of Python for Web and implementation.
- Using Webservices in Python (JSON, Parsing JSON e.t.c.)
- Walkthrough and implementation of Scientific and Mathematical libraries in Python i.e. SciPy and MathPy.
- Lighting Talks.
- Reaching out to all the participants and discussing about all the potential issues, conceptual errors and any other queries.

<For any Query Contact>:

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