

Introduction to Python

UCSAS 2022

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About Me

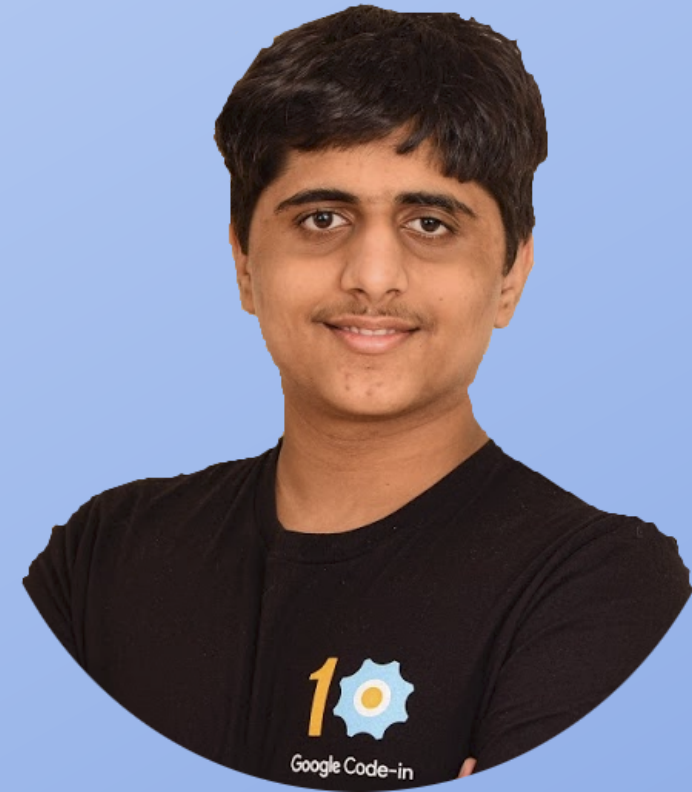
- **Second Year Computer Science Student at UConn**

Interests

- Deep Learning
- Linux
- Software Development

Aspirations:

Build really cool stuff related to deep learning!



Why Python?

- Python is a language with very diverse applications

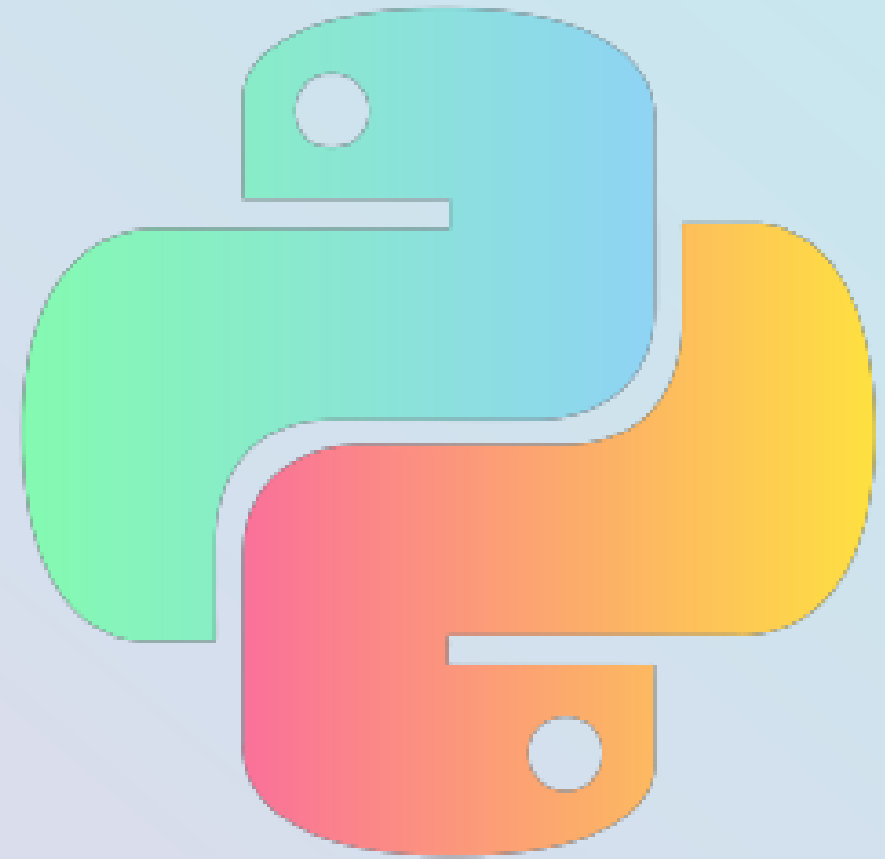
Prerequisites:

A device with Internet access
and Python with Pip installed.

Getting set up:

In the terminal, run

```
pip install -U numpy pandas  
matplotlib seaborn
```



What we will be covering today!

- Python Syntax (Variables, Indentation, Comments)
- Data Types and Methods
 - Strings (`str`)
 - Numerical types (`int` , `float` , `complex`)
 - Mapping (`dict`)
 - Sets (`sets` , `frozenset`)
- Conditions, Loops and Functions
- Basic modules and their respective functions
 - `numpy` : Arrays, Universal Functions (Vectorized), Random numbers (Simulations)
 - `pandas` : Dataframes, Data Manipulation

Sidenote: Getting help in Python

For any class, you can call the `dir()`