Python for Data Science

Program overview and requirements (Gr. 9-12; Spring 2022)

Description

The Python for Data Science (PDS) program is a series of four virtual workshops that run from 1-2:30 pm every Saturday between Feb 26-Mar 20, 2022. In this workshop, students will learn how to explore, manipulate, visualize, and analyze a publicly available dataset using Python. Some programming experience is required to participate in this workshop. All workshops will be offered virtually via Zoom.

Program schedule

Date: Feb 16, Mar 5, 12, and 19, 2022 (every Saturday)
Time: 1:00-2:30 pm
Location: Online via Zoom
Grade: 9-12
Cost: Free

Date & time	Workshop
Feb 26 (Sat) 1-2:30 pm	Getting Started with Python
Mar 5 (Sat) 1-2:30 pm	Data Exploration and Wrangling
Mar 12 (Sat) 1-2:30 pm	Data Visualization
Mar 19 (Sat) 1-2:30 pm	Introduction to Statistics

Sign-up link

http://websurvey.sfu.ca/survey/416822222

The deadline to sign up is Feb 14 (Monday) at 11:59 pm. A confirmation email will be sent to students by Feb 15 (Tuesday) at 5:00 pm.

Additional information

- The progress of covering the concepts above will depend on the pace of the class.
- Meeting links will be open at 12:30 pm, which is 30 minutes before the start time, for students who wish to test their setup (e.g. is my audio working?).

Workshop requirements

- Internet access
- Laptop/Desktop computer
- Google account with Google Colaboratory installed. We will be using Colab notebooks for this workshop series.

Python for Data Science
Program overview and requirements (Gr. 9-12; Spring 2022)

Virtual Community Guidelines

Welcome to the Python for Data Science program offered virtually by the SFU Applied Sciences Outreach! We are so excited that you have decided to join us. Our mission is to inspire, encourage, and support youths of all backgrounds to explore the many topics related to science, engineering, and technology through interactive and engaging activities. Before you join us, there are some guidelines we need everyone to follow to maintain the safety of everyone involved. See below for our Virtual Community Guidelines.

Personal Safety: We take safety seriously. If harm is disclosed or discussed (harm to self, or harming others) then we will take the appropriate steps to ensure your continued safety and the safety of those around you. Threats about others personal safety will not be tolerated.

Respect: Treat those online as you would treat them in-person that is with respect, dignity, and care.

No Hate Speech or Bullying: Bullying, discrimination, and harassment of any kind will not be tolerated.

Communication: Communication is encouraged in this workshop. Communicate with respect and listen to others when they speak or share ideas, which includes when sharing ideas out loud or via the chat function. Mute your microphone when not speaking and only turn your video on if you feel comfortable to do so.

Privacy: Respect the privacy and personal information of those in the shared virtual space by not sharing information that is not your own. Respect your own privacy by not sharing any personal information with those you do not know. Sharing of the Zoom link with those outside of the specific intended group is strictly prohibited.
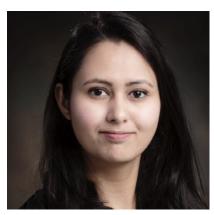
Copyright: There will be no recording of anything that happens in this space, which includes participants and instructors taking pictures, recording parts of the workshop or recording their screen during any part of the workshop.

By joining the Python for Data Science program, you are considered to be in agreement with the above community guidelines. We will take the appropriate actions if any of the above guidelines are violated. Depending on the situation, this may result in revoking participation in the remaining workshops. Thank you in advance for your commitment to keeping our programs engaging, safe and of course, fun!

Meet your instructors

Neha Sharma
PhD candidate with research interests in multimedia networking, computer vision and machine learning

Neha's current research focuses on hyperspectral imaging using deep learning models for mobile applications. She enjoys travelling to different places with family and friends. In her free time, she loves to paint and watch movies.

Saba Akhyani
Master's graduate with research interest in computer vision

Saba did her master's in SFU's Rosie Lab, in which they develop AI software to help robots understand what humans think and feel. She enjoys swimming and singing in her free time!

Contact

If you have questions, please do not hesitate to contact Eva at sacoord@sfu.ca.