2023

An introduction to Python programming Language for beginners

BABAK ZOLGHADR-ASLI

SESSION ONE | INSTALLING PYTHON

UNIVERSITY OF QUEENSLAND & UNIVERSITY OF EXETER

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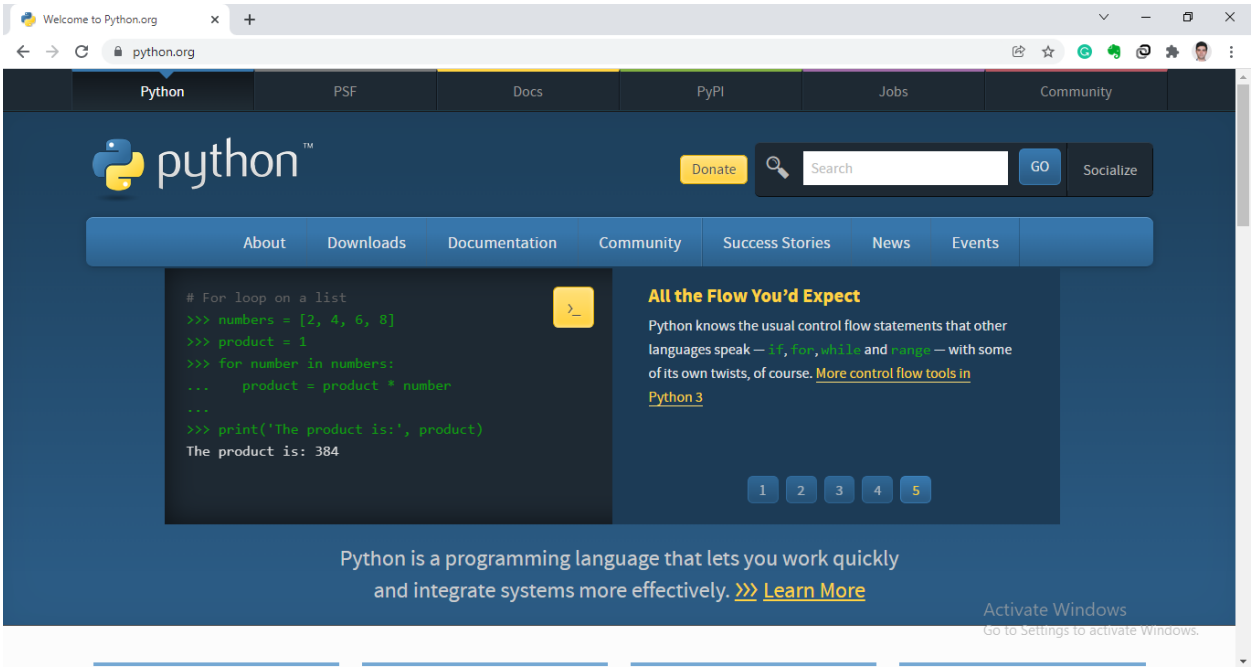
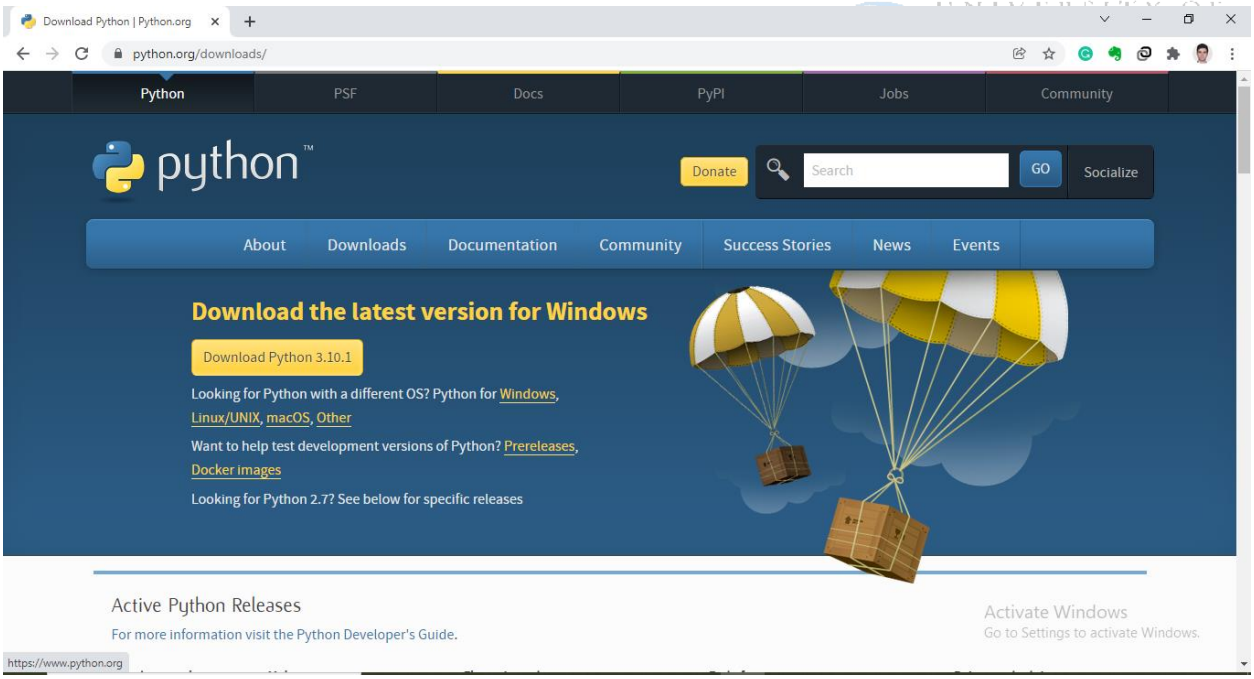
I. Python & IDLE

1. Go to https://www.python.org/



2. Go to the **Downloads** tab; and download the latest **stable version** of the Python [that is, Python 3.10 on Dec. 28, 2021] that is compatible with your system.



3. Install the package; Make sure you install the IDLE, pip, and documentations; Also add the directory to your PATH (i.e., check the boxes).

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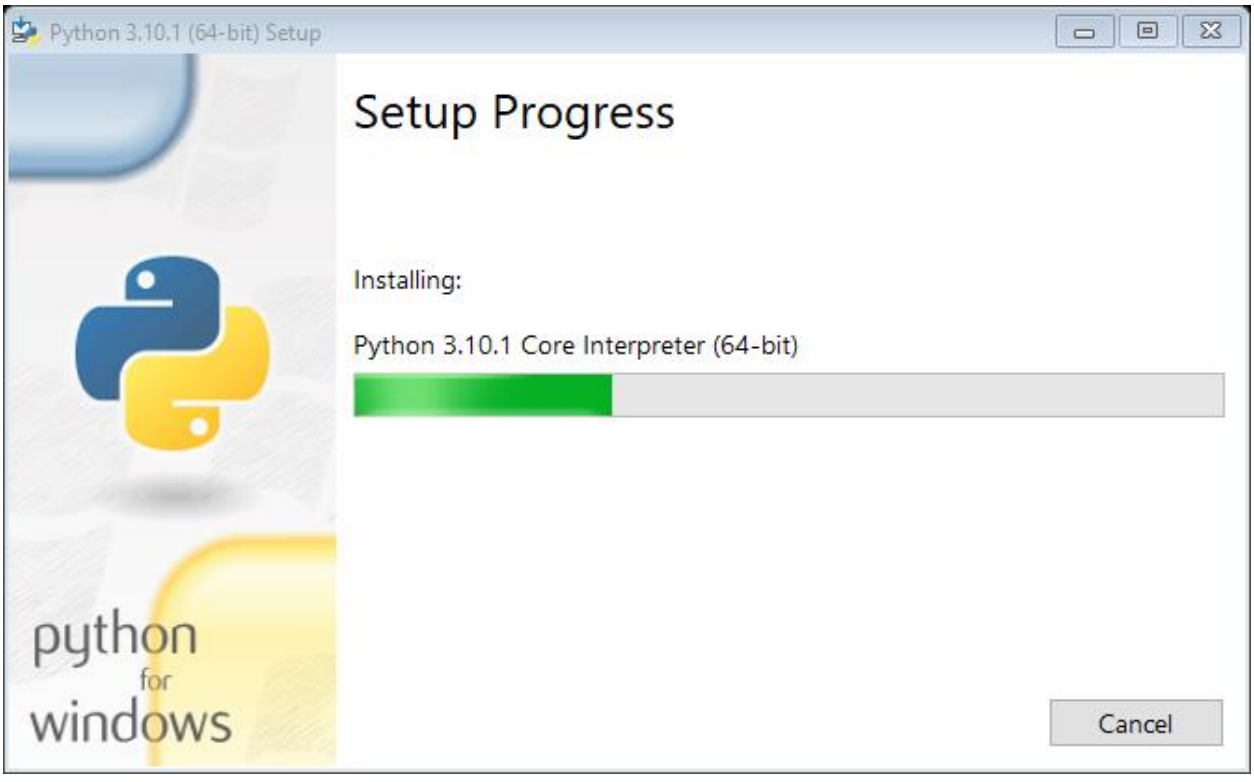
4. Wait for the installation to finish.



II. Google Colab

Colab, or "Colaboratory", allows you to write and execute Python in your browser, with

- Zero configuration required
- Free access to GPUs
- Easy sharing

Whether you're a student, a data scientist or an AI researcher, Colab can make your work easier. Watch Introduction to Colab to learn more, or just get started below!

1. Simply sign in into your google account in your browser, say google Chrome.

2. Go to the following link:

https://colab.research.google.com/

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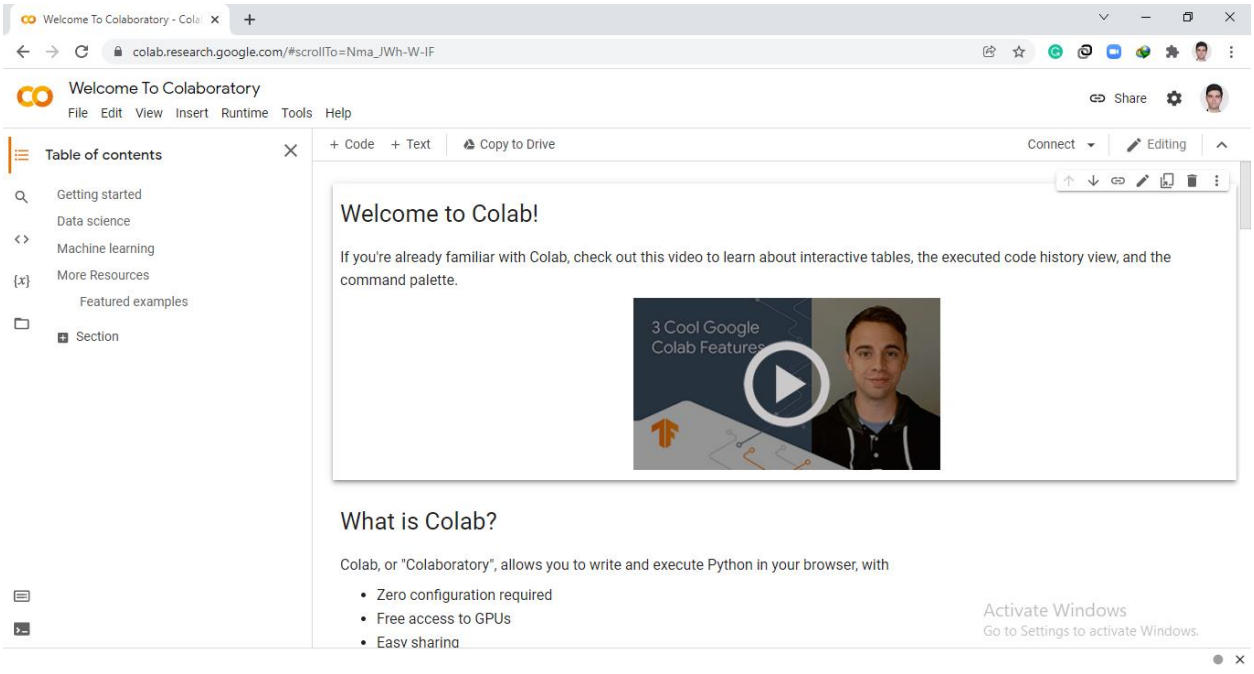
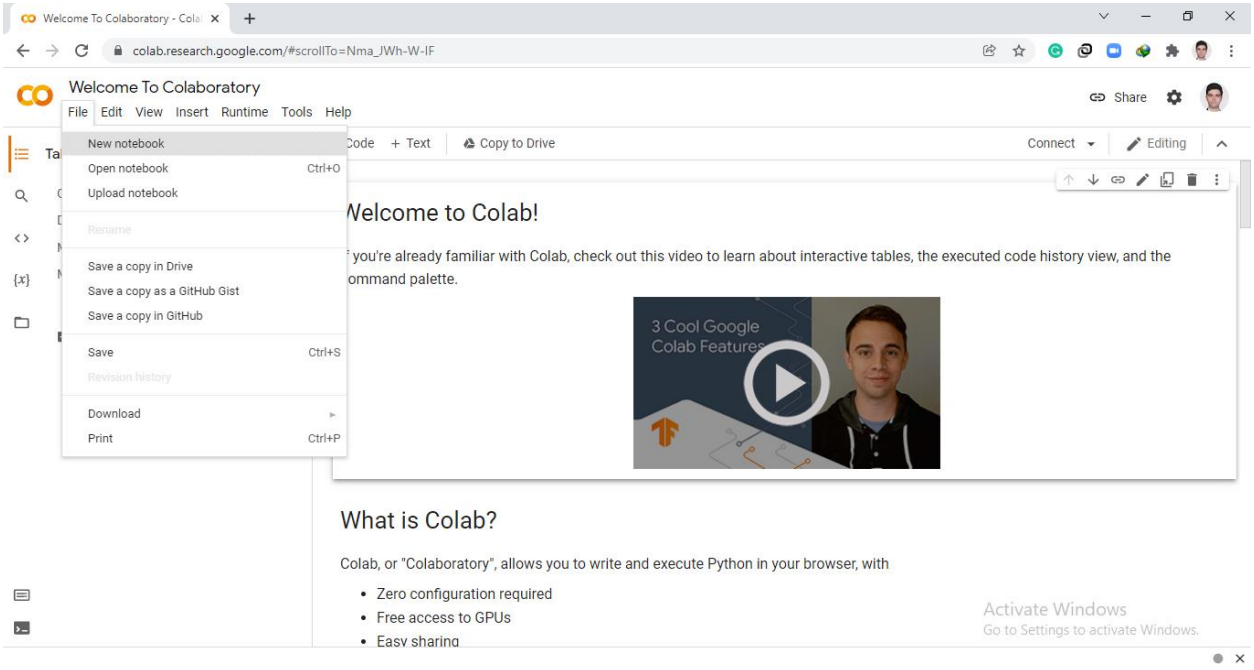


3. To open a new notebook simply go the File tab and click on New nootbook option.



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Note | All your nootbooks would be saved on your Google Drive. You can easily download the `.py` or `.ipynb` version of any of these files later on.

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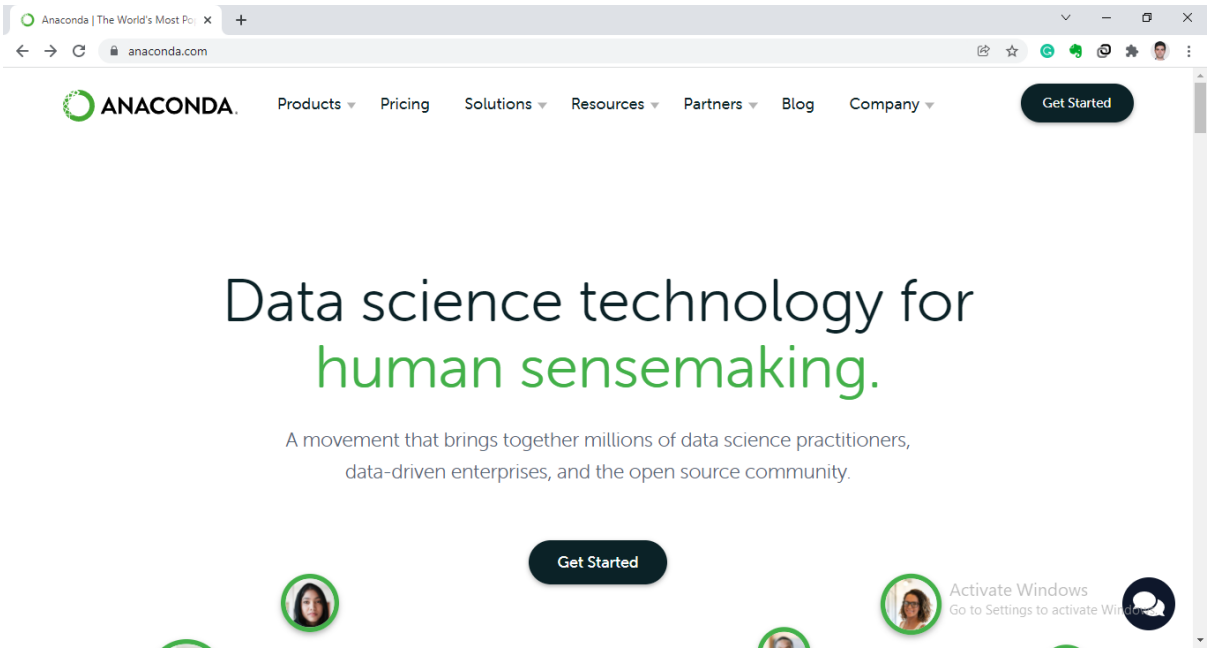
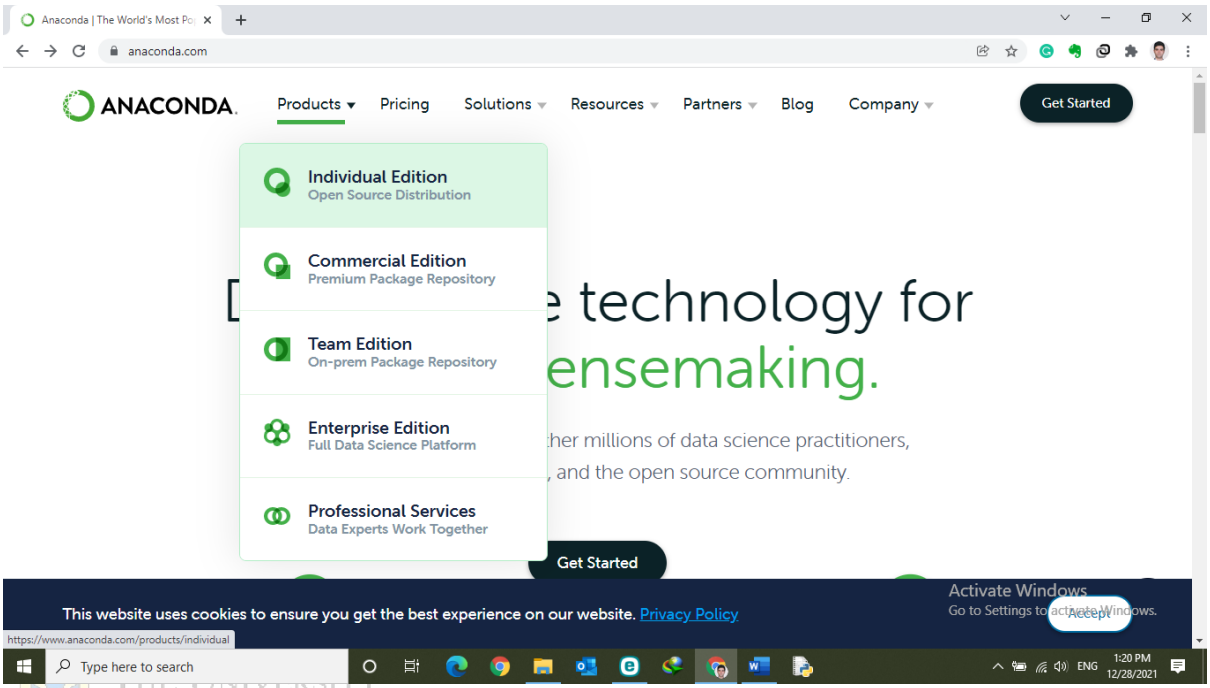
III. Anaconda

Anaconda is a distribution of the Python and R programming languages for scientific computing that aims to simplify package management and deployment.

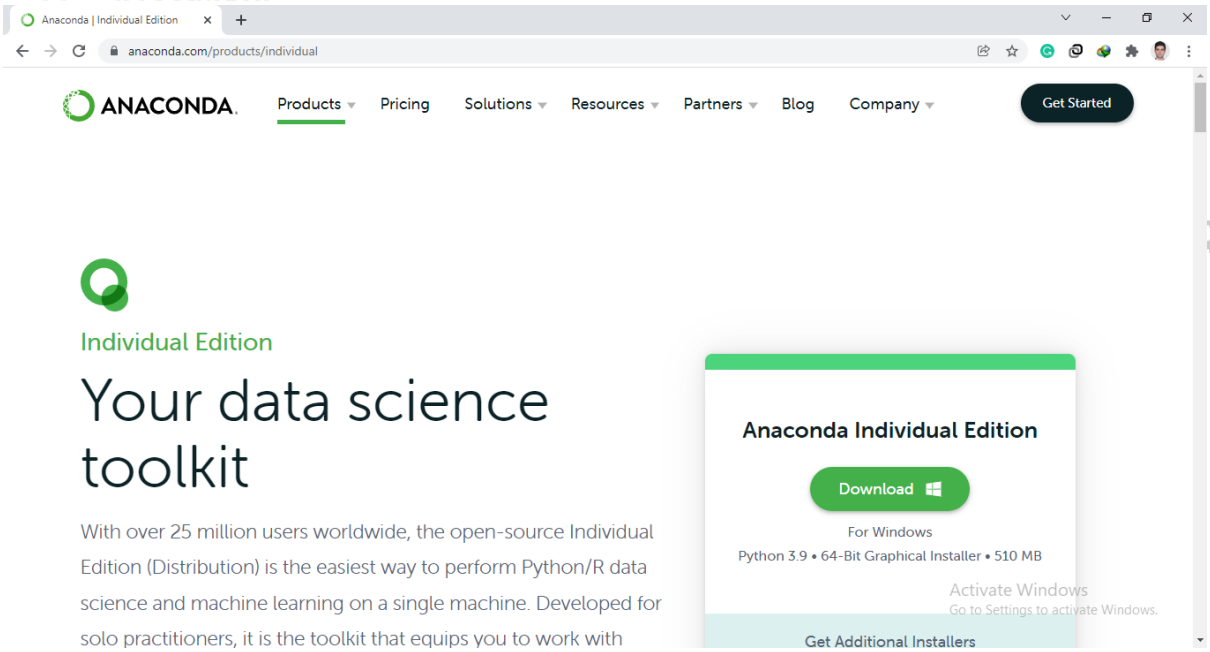
1. Go to https://www.anaconda.com/



2. Go to **Products** tab and scroll down to **Individual Edition**.

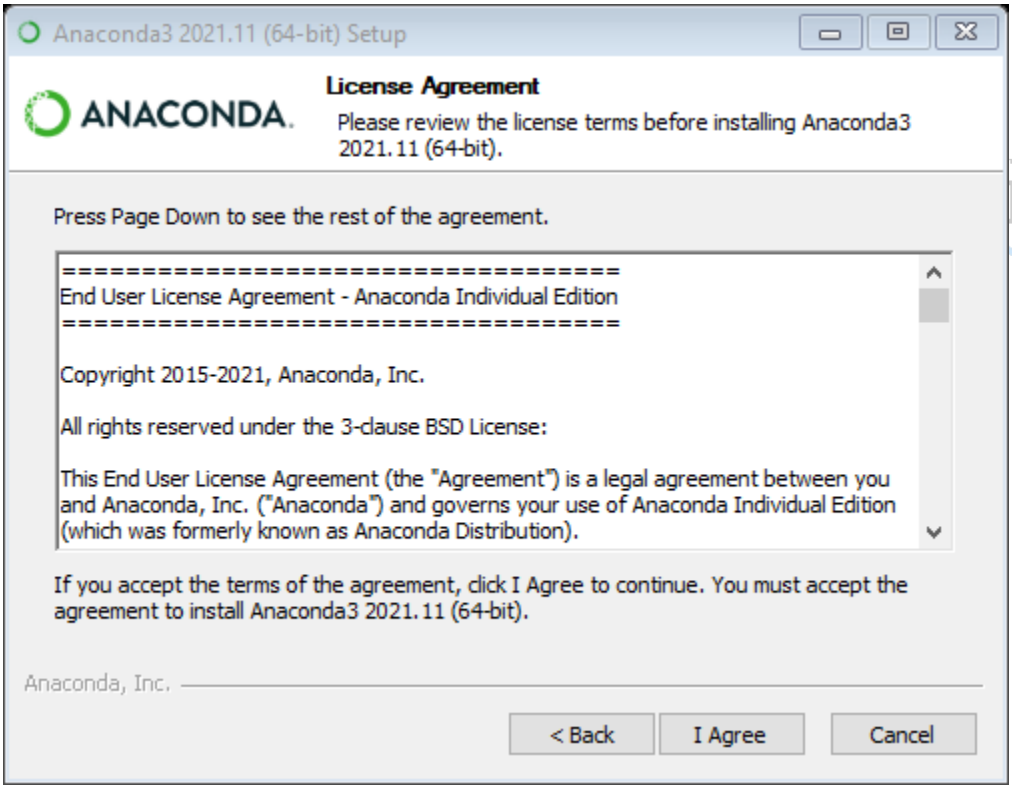


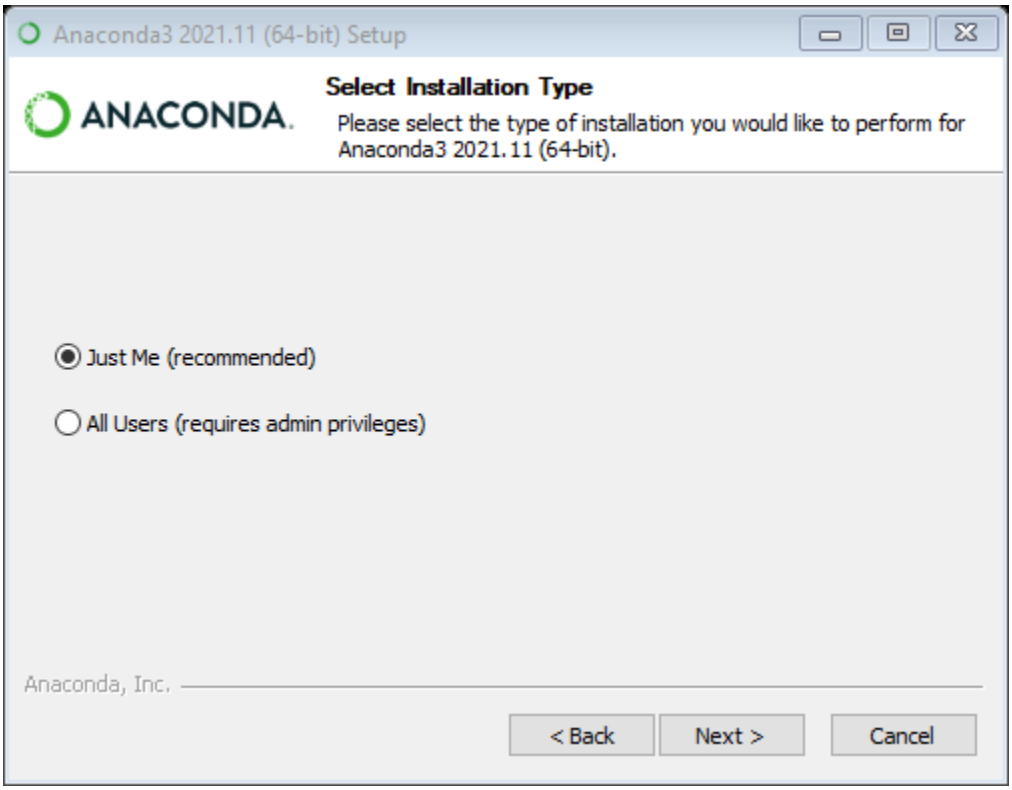
3. Select a package that is compatible with your system.

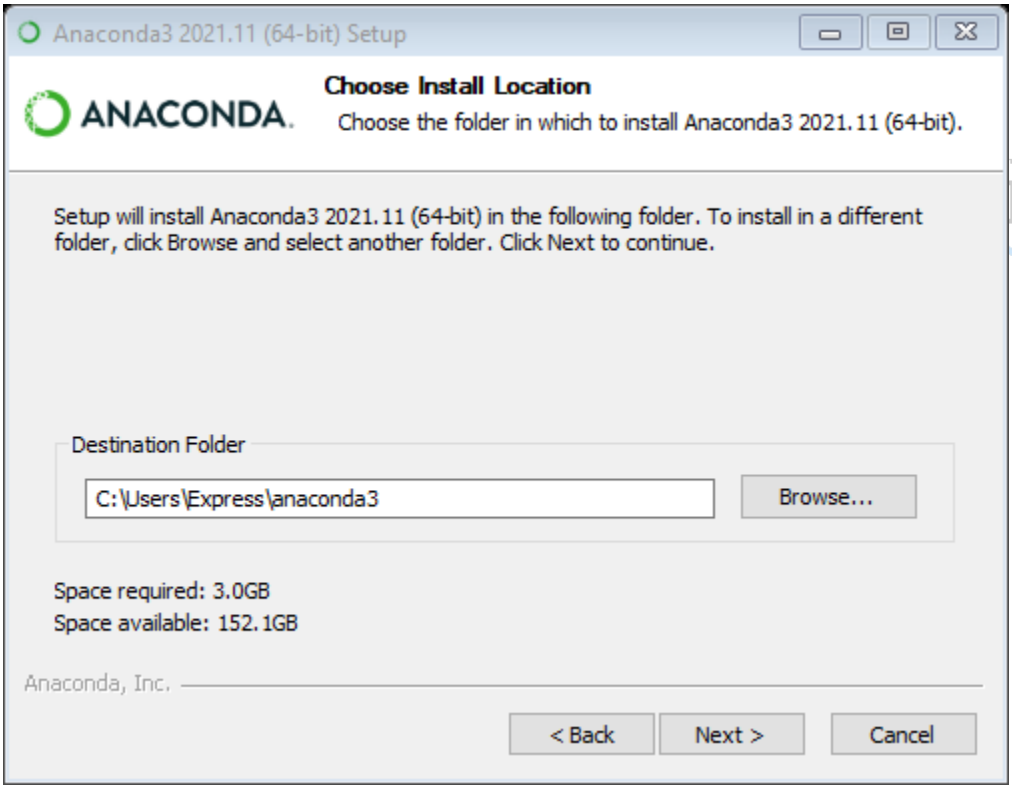


4. Install the app.

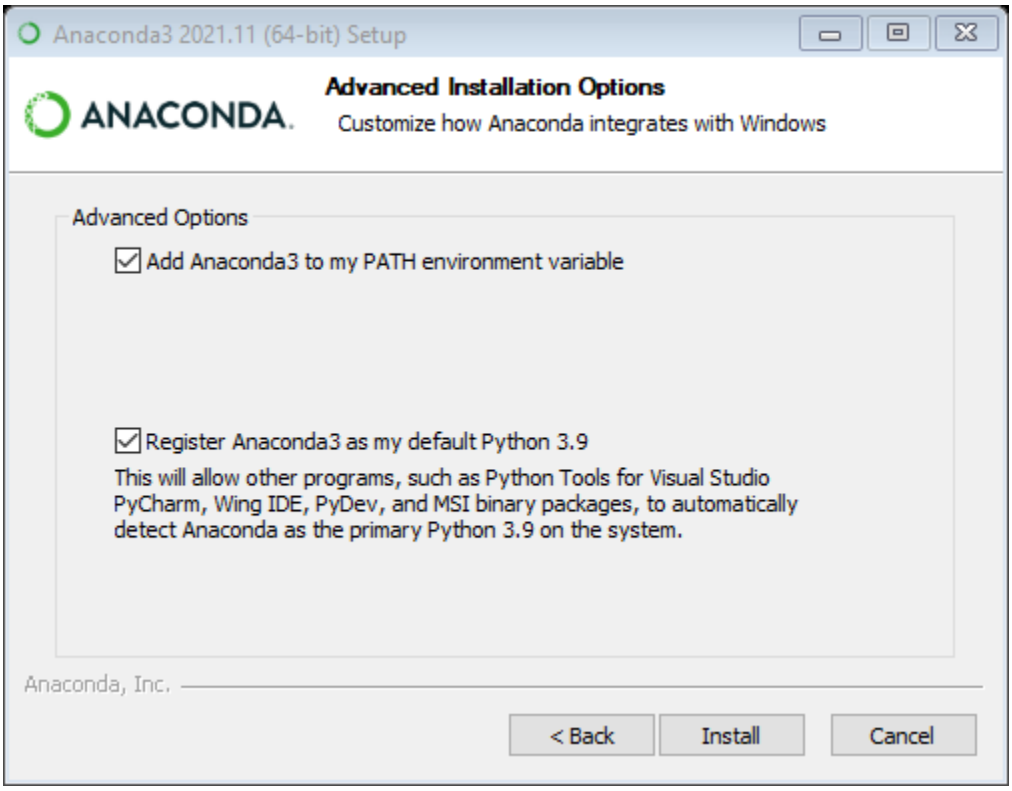

Anaconda3 2021.11 (64-bit) Setup
ANACONDA.
Welcome to Anaconda3 2021.11 (64-bit) Setup
Setup will guide you through the installation of Anaconda3 2021.11 (64-bit).
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel


Anaconda3 2021.11 (64-bit) Setup
ANACONDA.
License Agreement
Please review the license terms before installing Anaconda3 2021.11 (64-bit).
Press Page Down to see the rest of the agreement.
End User License Agreement - Anaconda Individual Edition
Copyright 2015-2021, Anaconda, Inc.
All rights reserved under the 3-clause BSD License:
This End User License Agreement (the "Agreement") is a legal agreement between you and Anaconda, Inc. ("Anaconda") and governs your use of Anaconda Individual Edition (which was formerly known as Anaconda Distribution).
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install Anaconda3 2021.11 (64-bit).
Anaconda, Inc.
< Back
I Agree
Cancel

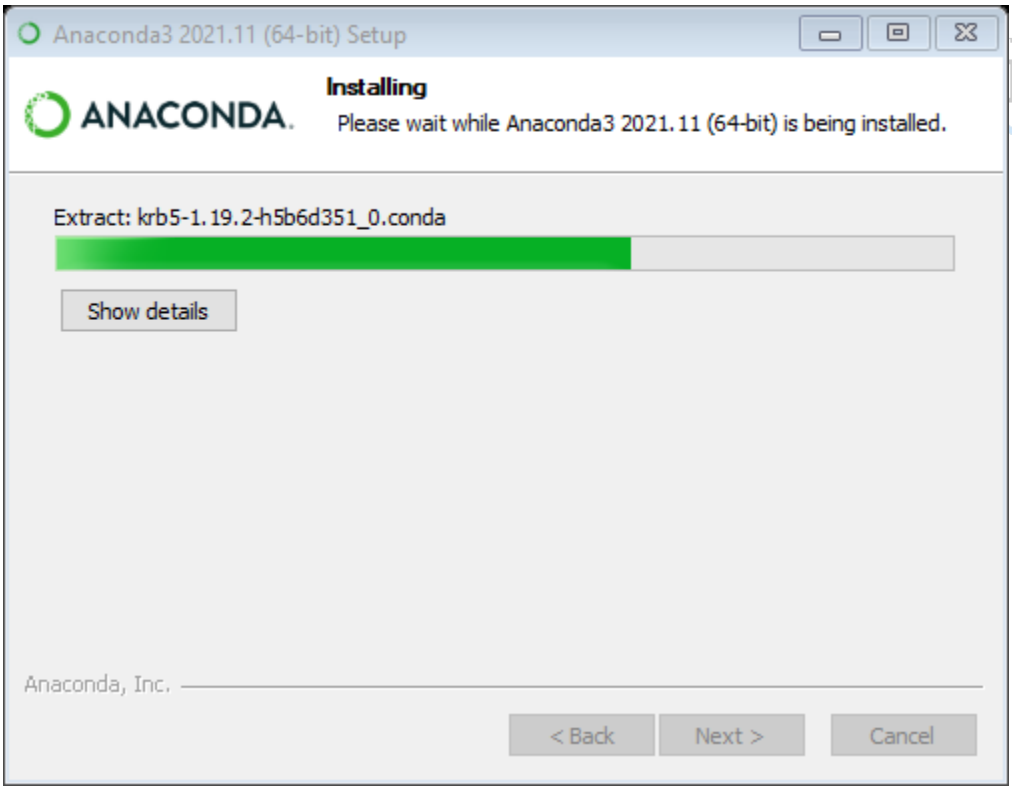


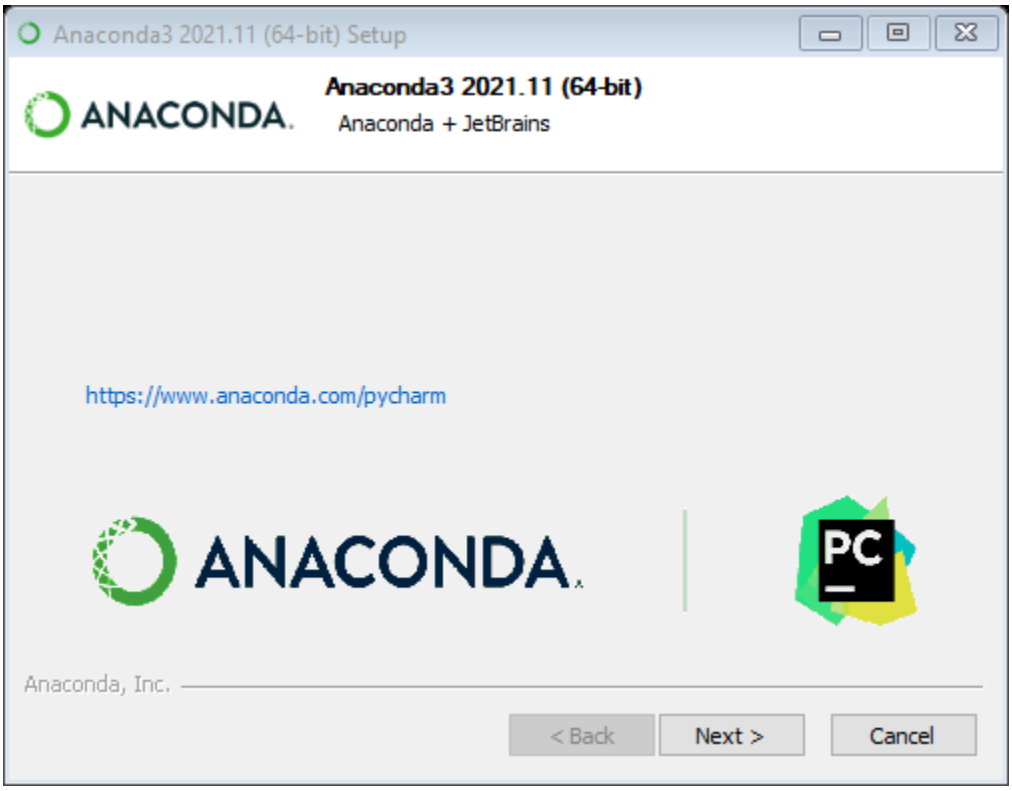


IMPORTANT | Make sure to add **Anaconda 3** directory to your **PATH** by checking the box.



5. Wait for the installation to be over.




Anaconda3 2021.11 (64-bit) Setup
ANACONDA.
Anaconda3 2021.11 (64-bit)
Anaconda + JetBrains
https://www.anaconda.com/pycharm
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PC
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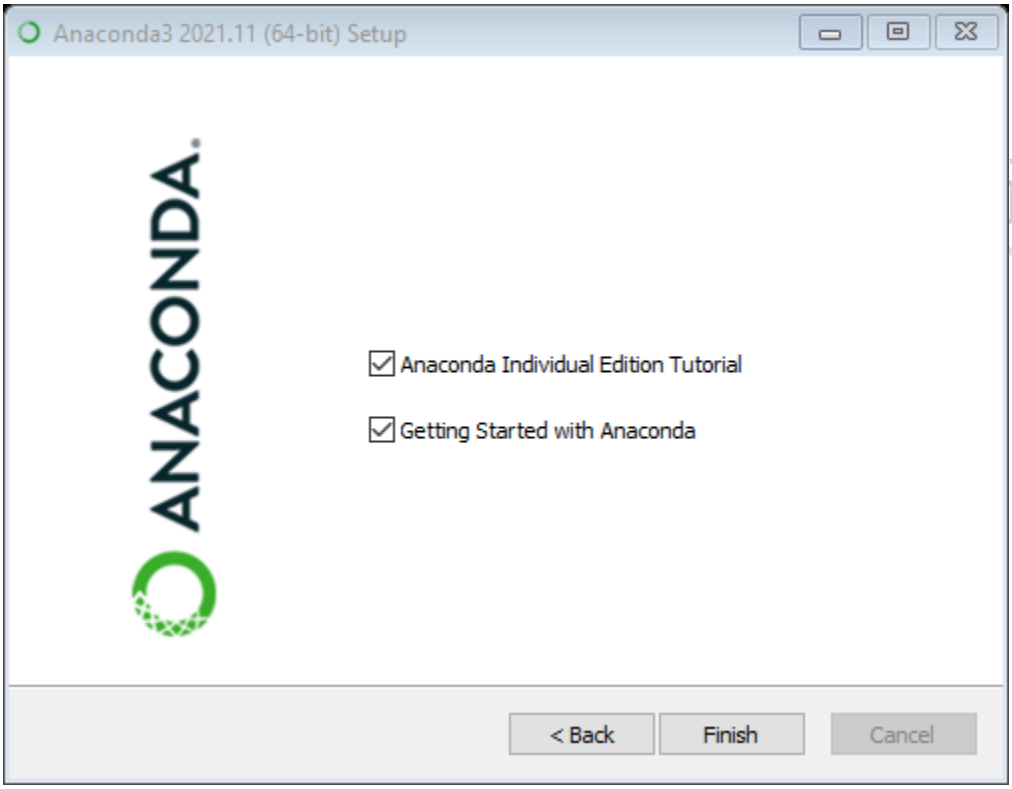
Anaconda3 2021.11 (64-bit) Setup
ANACONDA.
Anaconda Individual Edition Tutorial
Getting Started with Anaconda
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QUEX-JOINT PH.D. CANDIDATE

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RESEARCH AREA

- Water resources planning and management
- Climate change
- Sustainable development
- Decision-Making paradigms
- Deep Uncertainty
- Optimization
- Machine Learning
- Data Mining

AWARDS & HONORS

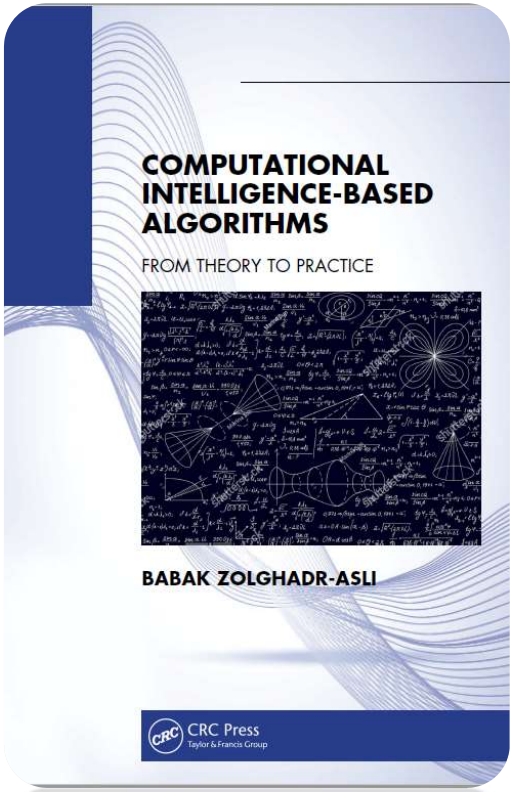
Outstanding researcher award in "the 26th Research Festival", University of Tehran (2017); Outstanding student award in "the 8th International Festival and Exhibition", University of Tehran (2018); Outstanding M.Sc. thesis award in "the 5th National Festival of Environment", Tehran Iran (2018); Winner of the "Prof. Alireaz Sepaskhah" 1st Scientific Award in water engineering [Shiraz University] (2019); Excellent Reviewer, Journal of Hydro Science & Marine Engineering (2020).

SELECTED PUBLICATION

1. Zolghadr-Asli, B., Naghdyzadegan Jahromi, M., Wan, X., Enayati, M., Naghdizadegan Jahromi, M., Tahmasebi Nasab, M., Pourghasemi, H.R., & Tiefenbacher, J.P. (2023). "Uncovering the Depletion Patterns of Inland Water Bodies via Remote Sensing, Data Mining, and Statistical Analysis." Water, 15(8), 1508.
2. Zolghadr-Asli, B. (2023). "No-free-lunch-theorem: A page taken from the computational intelligence for water resources planning and management." Environmental Science and Pollution Research, DOI: 10.1007/s11356-023-26300-1.
3. Zolghadr-Asli, B. (2023). "Computational intelligence-based optimization algorithms: From theory to practice," CRC Press, (Typesetting and finalizing the publisher requirements).

FOR A FULL LIST VISIT: HERE

SCAN ME



Coming out soon .... HOPEFULLY!!!!

Chapter 9: Harmony Search Algorithm

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