

Computational Finance in Python

Universität Tübingen

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XVESTOR_{.APP}

Summer term 2022

Agenda

- 1) Introduction
- 2) Install Anaconda
- 3) Course overview

Introduction

- Why learn Python?
 - one of the easiest programming languages
 - widely used in data science and the field of numerical computations
 - growing global community of contributors; Python is open source
 - often used for cloud-based software services

Introduction

- Why learn computational finance?
 - information processing is one of the core tasks of financial services
 - high importance in front offices:
 - fast and rule-based processing of investment and trading decisions
 - high importance in middle and back offices:
 - automation of regulatory processes
 - audit-related projects

Introduction

- Goals of this course
 - quickly learn Python and programming concepts
 - solve real-world problems in Python
 - **implement your own trading strategy (assessment / demo)**

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Education

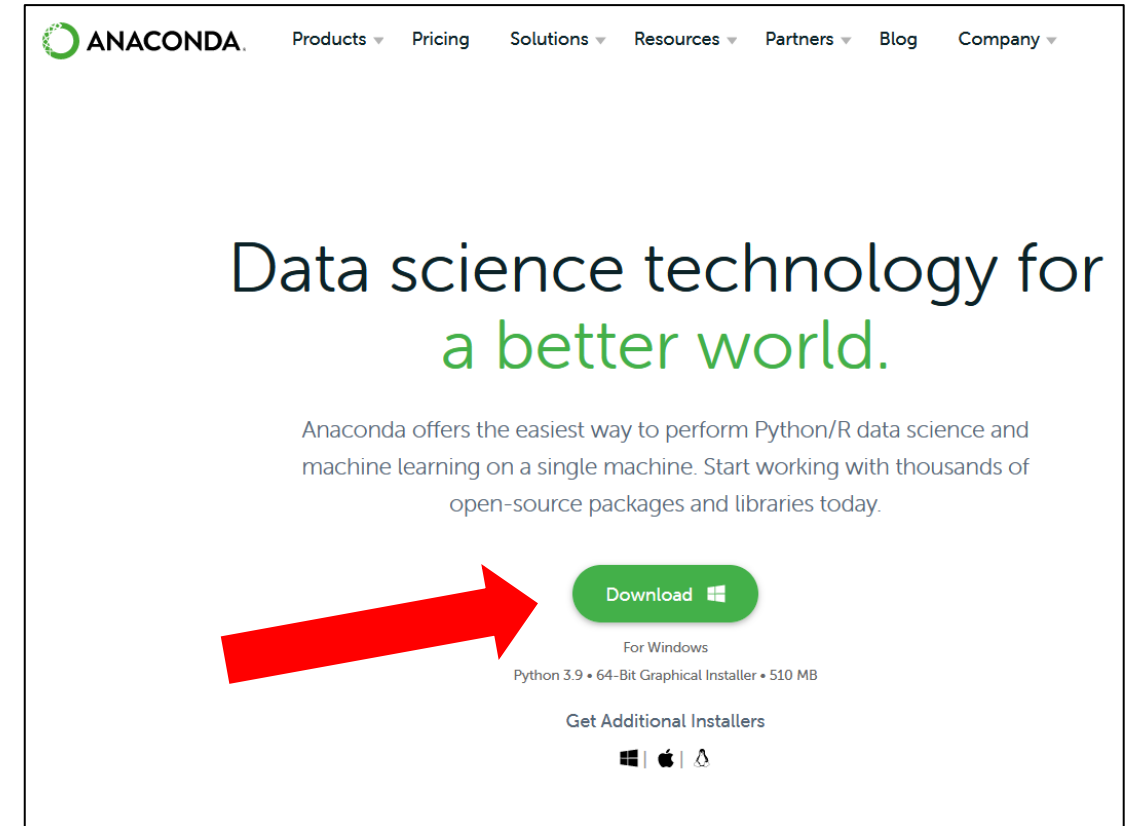
- PhD in Financial Engineering (Universität Tübingen)
- Diplom in Business Engineering (KIT)

14 years of experience

- Co-Founder of XVESTOR
- Allianz Global Investors
- Goldman Sachs

Install Anaconda

- go to <https://www.anaconda.com/>
- download and install Anaconda distribution on your computer



Course overview

Date	Description
22.04.2022	<ul style="list-style-type: none">• Introduction• crash course Python, NumPy• exercises (for self-studies)
29.04.2022	<ul style="list-style-type: none">• NumPy, Pandas• exercises (for self-studies)
06.05.2022	<ul style="list-style-type: none">• Pandas, Matplotlib,• presentation of assessment• exercises (for self-studies)
13.05.2022	<ul style="list-style-type: none">• time series, portfolio allocation,• exercises (for self-studies)
15.05.2022	<ul style="list-style-type: none">• registration for assessment
19.06.2022	<ul style="list-style-type: none">• deadline for delivery of demo notebooks
23.06.2022	<ul style="list-style-type: none">• presentation and assessment of demos