UNIVERSITY OF
EASTERN FINLAND

Itä-Suomen yliopisto

JOENSUU
Yliopistokatu 2
PL 111, 80101 Joensuu

KUOPIO
Yliopistonranta 1
PL 1627, 70211 Kuopio

uef.fi

Introduction to data-analysis in Python

A two-day intensive course with 6x45min sessions on Monday 9th and 16th November (from 9.00 to 15.30 with breaks) targeted to KUBIAC target groups inexperienced with Python programming. The course will be held in "short lecture on topic – programming exercise – exercise explained (teacher codes live the same exercise) – next lecture..."-style, so the actual split between breaks and teaching depends on the progress and interactions with students in the course. The lecturer will be Janne Ravantti who is very experienced in teaching Python basics. The course will be organized online, using Teams as a platform. The language of the instruction will be English.

We have limit the number of participants to 16. The selection will be first registered, first selected basis and we will have a reserve list.

We have to collect some details of the participants and their opinion of the course in the standardized forms, because the funding for this course is provided by the KUBIAC project funded by ESF. Upon registration (and acceptance), we will send the forms to you with a secure answer-link enabling secure transfer of information.

The course will be done with Anaconda https://www.anaconda.com/products/individual and Jupyter-labs https://jupyter.org/ . The course organizers will help you with installation if needed.

It is possible to do a small practical hands-on project after the short course. We will set up individualized projects to students (we will schedule a separate meeting for this). You can also ask for a generic project, but we'd like to find something that might be immediately beneficial for you in your work.

We will let you know about the status of your registration by email within few days after receiving the registration.

Please send possible questions to jussi dot tohka at uef dot fi

Registration:

https://forms.office.com/Pages/ResponsePage.aspx?id=Lp-HhwRz8ku68mPn-D88NMBB1iA94pVHpxd-Qn8uN2lUN09GOU1NQUZDOUdCRlBVRzBQT1FPQ0VMTC4u

Content:

Day 1. (6x45 min sessions) Topics:

Introduction to programming and programming languages
Introduction to Python language and our programming environment
Python:
    Variables / Assignment statement / Operators
    Reading input
    Conditional statements / Code blocks

From strings to lists
Lists, indices and slices
For- and while-loops

Day 2. (6x45 min sessions) Topics:
Python continued (less topics, exercises take longer time since they include topics from Day 1):
Dictionary data type
Reading from and writing to files
Functions
Few words about objects
Libraries and modules
Recap

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