COURSE DETAIL

PYTHON FOR DATA ANALYSIS AND VISUALIZATION
Country Germany
Host Institution Technical University Berlin
Program(s) Technical University Summer
UCEAP Course Level Lower Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 52
UCEAP Course Suffix
UCEAP Official Title PYTHON FOR DATA ANALYSIS AND VISUALIZATION
UCEAP Transcript Title PYTHON DATA VISUAL
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description

In this course, the fundamentals of Python are covered, with a special focus on the skills necessary for in-depth data analyses and data visualization. These two skills are fundamental in a wide range of disciplines, including but not limited to STEM (Sciences, Technology, Engineering and Mathematics) and Humanities fields of study. This course will cover the following: data types and compound data structures, conditional statements and loops, Python functions, importing, exporting and analyzing different types of data using pandas, visualizing data using Matplotlib and Seaborn, and developing interactive plots with Plotly. At the end of the two weeks course, students will work and present a final personal data analytics and visualization project.

Language(s) of Instruction
English

Host Institution Course Number

Host Institution Course Title
PYTHON FOR DATA ANALYSIS AND VISUALIZATION

Host Institution Course Details
https://www.tu.berlin/en/international/summer-school/summer-school/summer-schoo...

Host Institution Campus
TUBS

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed
2024-2025

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