

Aktuelle Meldung

Free online course helps get you started in the world of data science

22 May 2023

Anyone interested in machine learning and the basics of statistics can now learn how to analyze large data sets and visualize the results in a free online course at the Hasso Plattner Institute (HPI). The "[Data Science Bootcamp](#)", as it is called, starts on 7 June on the [openHPI](#) learning platform. The participants will work with real data and programming tasks that require basic knowledge of the Python programming language.

Two HPI doctoral students are leading the English-language bootcamp: Mohamed Elhayany and Hendrik Steinbeck. They introduce the learners to Jupyter Notebooks, an interactive web platform that enables scientific computations and visualizations through a web browser. "This means that no one in our course has to install a special programming environment on their local computer," Elhayany emphasizes. That should make it easier to get started in programming, visualize, analyze, and extract data from various sources.

The two experts want to take interested people on a voyage of discovery into the world of scientific data analysis. "In order to meet the requirements well, a fundamental knowledge of Python is important. An interest in mathematical approaches certainly helps, but the course is designed to understand and apply existing frameworks, rather than creating one's own models", Steinbeck says. Through often-used libraries, the two HPI experts focus on hands-on problems and typical models like linear regression and multivariate analysis. "Therefore, each learner can contextualize the approaches to their daily work and industry," Steinbeck points out. Those who acquire knowledge in the areas of data science and machine learning today will be more successful in their field of work in the future, the leaders of the openHPI bootcamp are certain.

The target group for the free course is professionals who aim to integrate data science methods with their industry-specific knowledge in their day-to-day work, but also pupils and students. Depending on previous knowledge, five to seven hours per week should be planned for working through the instructional videos, self-tests, programming tasks, and participation in live streams and discussions in the course forum.

Background to the openHPI education platform

<https://open.hpi.de> is Europe's pioneer among open learning platforms that are accessible to all interested parties. The Hasso Plattner Institute launched its free online courses on information technology and innovation topics on 5 September 2012. In the meantime, more than 1.2 million course registrations have been registered on openHPI - both by IT beginners and digital transformation experts. 328,000 people from 180 countries currently belong to the permanent user group of these Massive Open Online Courses (MOOC) on the platform. It is growing daily. The institute has issued around 132,000 certificates to particularly successful participants. The 100 or so courses offered so far are still available free of charge in archive mode. Students can also receive credit at their university for completing openHPI courses. Partner platforms that work with the same learning technology include [openSAP](#) and [OpenWHO](#).

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