ONLINE SHORT COURSE

Introduction to Python programming

Tuesday, 4 June 2024, 17h00-19h00 SAST

--- Attend this course to earn CPD points through SACNASP ---

COURSE DESCRIPTION

Python is a popular programming language that has emerged as a powerful tool for data analysis and manipulation due to its versatility, simplicity, and dynamic libraries. Whether you are a complete beginner or have some programming experience, this course is tailored to provide a comprehensive introduction to Python and its applications in data analysis. During this course, you will embark on a journey that combines essential Python programming concepts with practical techniques for data manipulation, exploration and visualisation. This session will be led by an experienced instructor who will blend theoretical knowledge and hands-on coding exercises to ensure you grasp key concepts.

What you can expect to learn:
1. Introduction to Python
2. Basics of the Python programming language
3. Data manipulation
4. Data visualisation
5. Basic statistical analysis

> **WHAT YOU NEED TO INSTALL BEFOREHAND:**
> **Anaconda:** https://www.anaconda.com/download

By the end of the course, you will have the knowledge and skills needed to start writing your own Python scripts, perform data analysis tasks and create insightful visualisations. Whether you are interested in exploring data or deriving insights, Python's versatility will empower you to tackle diverse data analysis challenges and take your analytical skills to the next level!

PRESENTER

Rene Stander
University of Pretoria

Having recently completed her PhD in Mathematical Statistics at the University of Pretoria, Rene Stander is appointed as a lecturer in the Department of Statistics. With valuable experience in teaching coding concepts to first and second-year students, she enriches the educational experience by bridging theoretical knowledge with practical skills. Her research focus is spatial statistics with specific emphasis on measures of spatial similarity and hotspot detection and prediction. During her doctoral studies, she developed techniques to identify geographical areas at risk of becoming hotspots with application in infectious disease modelling and crime prediction.

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