

# Data Analytics and Python Programming

Become a programming master by handling a wide variety of data types



## Expect these Contents

The Summer School aims at educating students on data-driven learning with a special focus on supervised, unsupervised and reinforcement learning. Another important pillar of the program is Introduction to Programming, including algorithms, Python basic data types (int, string, bool), math operations, conditionals, and loops. The program commences by introducing the fundamentals of file handling with Python: JSON, txt and csv structured and unstructured data types. The second part handles artificial neural networks and other models.

- ▶ Introduction to programming and Python basic data types
- ▶ Learn how to manage object-oriented programming
- ▶ Introduction to data analytics and artificial neural networks
- ▶ Data visualization and exploration

## Quick Facts

### Your Summer School at a glance



11 - August 24, 2024 (2 weeks)



On campus



RWTH Certificate with 3 ECTS (approx. 75 hours)



3,190 €



Mentoring and Supporting Program



Accommodation included

## Apply your programming skills in practice

Apart from learning and mastering fundamental concepts of programming and data analysis, you will lay the foundation for your future career by putting the acquired methodology directly into practice. You can look forward to discovering cutting-edge applications of AI with the help of practical case studies and a visit to RWTH's own Smart Automation Lab.

