

# Teach The Nation

## Python Programming workshops

Free, interactive 4-6 hour sessions

Workshops are available online

**Our Python programming workshops are designed to enhance your skills and help you excel in a competitive job market, providing an opportunity to explore one of the most versatile and sought-after programming languages.**

### **Flexible**

Our workshops are available online, with some sessions strategically scheduled on weekends making them accessible to everyone, regardless of background or previous knowledge in tech.

### **Bite-sized**

4-6 hour interactive and engaging sessions carefully crafted to keep you engaged and motivated throughout the training.

### **CV boosters**

Upon completion, you will receive a QA certificate of achievement and badge, the perfect symbols to proudly showcase your newly acquired skills and supercharge your CV and LinkedIn profile.

### **In tune with employers' and market needs**

Our workshops are designed to give you the foundational knowledge to help kickstart your career in tech. We have tailored the workshops to cover the most relevant content for you to stay up to date with the latest tech trends.

# Is it for me?

If you're passionate about learning new skills, our workshops are designed for you! The sessions cater to all backgrounds and knowledge levels, ensuring there's something for everyone. Chances are, you'll find yourself fitting into one of the following categories.



## Tech enthusiasts

Anyone passionate about technology and eager to explore the versatile applications of Python in fields like data analysis, web development, automation, and more.



## Professionals

Whether you're looking to build your first app, explore career opportunities in tech, or enhance your coding skills, this workshop will give you the tools and confidence to pursue your development goals.



## Problem solvers

Discover how Python can automate repetitive tasks, such as scheduling emails, data backups, or inventory management for small businesses.



## Educators

Python is a valuable tool in educational settings, helping students develop programming logic and problem-solving skills across various subjects, from math to science, through simulations and interactive lessons.



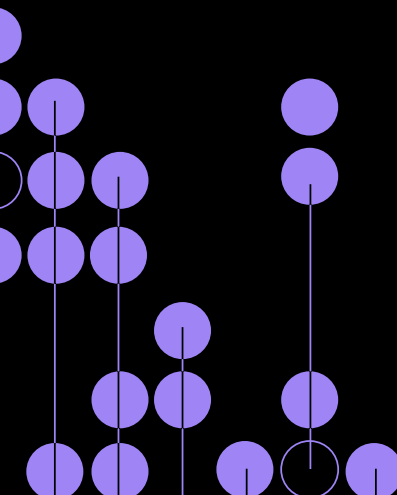
## Aspiring developers

Learn the fundamentals of clean, effective Python coding and build practical skills to tackle your own software development or data science projects.



## Hobbyists and creatives

Python isn't just for professionals—it's also perfect for hobbyists! Whether you're curious about programming, love tinkering with new tech, or want to automate tasks, Python makes it easy to explore your creative ideas.



# What will I learn?

Our Python programming workshop is structured across two distinct sessions, aimed at equipping you with the foundational knowledge and confidence needed to embark on your coding journey.

## 01

### Session 1

- The fundamentals of programming with the Python language
- Create working code using operators, conditional statements and loops
- Describe the syntax of Python Programming
- Develop an understanding of basic problem solving with Python code

## 02

### Session 2

- Work with Python data structures, including lists, dictionaries and sets
- Get a deeper understanding of Python syntax and semantics
- Explore problem solving in-depth using the Python language



# After participating in our workshops

After participating in our workshops, you will acquire the foundational knowledge necessary to pursue further training in:

## Automate repetitive tasks

Utilise Python to automate everyday tasks such as bulk file renaming, folder sorting, and automatic file downloads from the internet.

## Scrape data from the web

Learn how to extract valuable information from websites, a skill beneficial for research, market analysis, and competitive intelligence.

## Analyse data

Apply Python skills to analyse and visualize data using libraries like Pandas, Matplotlib, and Seaborn, enabling meaningful presentations of insights.

## Create simple games

Experiment with Python's Pygame library to develop simple games, providing a fun and creative application of your programming knowledge.

## Solve real-life problems

Identify practical problems in your daily life and solve them with Python. Build applications like a budgeting app, a to-do list manager, or a fitness progress tracker.

## Contribute to Open Source projects.

Join open-source communities, collaborate with other programmers, and contribute to projects aligned with your interests, gaining valuable experience.

## Explore machine learning

Dive into the realm of AI and machine learning using Python, with the opportunity to explore libraries like TensorFlow and scikit-learn.

## Build web applications

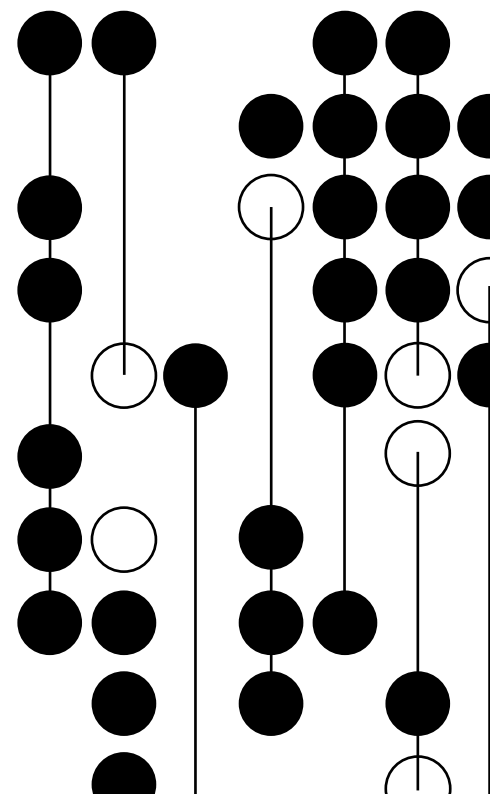
Learn web development with Python using frameworks like Flask or Django. Create your web applications, blogs, or portfolio sites.

## Script for software testing

If you're in a technical field, use Python to write scripts for testing software applications or automating quality assurance processes.

## Take part in coding competitions

Engage in coding competitions on platforms like LeetCode or Codeforces, challenging and honing your problem-solving skills.



## When can I attend?

We have many online workshops taking place throughout the year.

Explore our events page [here](#) or get in touch at [TTN@qa.com](mailto:TTN@qa.com) to find out more.



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