Data Science with Python Training
About Cognixia

Cognixia- A Digital Workforce Solutions Company is dedicated to delivering exceptional trainings and certifications in digital technologies. Founded in 2014, we provide interactive, customized training courses to individuals and organizations alike, and have served more than 100,000 professionals nationwide across 37 countries worldwide.

Our team of more than 4,500 industry experts facilitate more than 400 comprehensive digital technologies courses, along with state-of-the-art infrastructure, to deliver the best learning experience for everyone. Our comprehensive series of instructor-led online trainings, classroom trainings and on-demand self-paced online trainings cover a wide array of specialty areas, including all of the following:

- IoT
- Big Data
- Cloud Computing
- Cyber Security
- Machine Learning
- AI & Deep Learning
- Blockchain Technologies
- DevOps

Cognixia is ranked amongst the top five emerging technologies training companies by various prestigious bodies. We’re also an MAPR Advantage Partner, Hortonworks Community Partner, RedHat Enterprise Partner, Microsoft Silver Learning Partner and an authorized training partner for Dell EMC, Pivotal, VMware and RSA technologies.
SOME FORMIDABLE NAMES AS OUR TRAINING PARTNERS

- redhat
- MAPR
- Silver Microsoft Partner
- Pivotal
- Dell EMC
- VMware
- RSA
- Automation Anywhere
- ITIL
- (ISC)²
Get the Best out of Data Science with Python Course

Python programming, in the recent years, has become one of the most preferred languages for the Data Science discipline. And when it comes to building Machine Learning systems, Python offers a powerful and flexible platform. Taking a hands-on approach, our course is designed to give you ample opportunities to fiddle around with a wide variety of Data Science and Machine Learning algorithms. We believe that a practical approach is better than only theoretical erudition, and so we present several real-life use cases in our training conducive to the long-term retention of learning and development.

The Audience

- Software developers and programmers who want to reap the benefits of a lucrative Data Science and Machine Learning career.
- Data Analysts or Financial Analysts from the non-IT industry who want to make a transition to the IT industry.
- Individuals, students and corporate professionals who want to upscale their technical skill set.
## Course Curriculum

<table>
<thead>
<tr>
<th><strong>Topics Covered</strong></th>
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<tr>
<td><strong>Introduction to Data Science</strong></td>
<td>- Data Science Introduction, Data Science Toolkit, Job outlook, Prerequisite, Target Audience, Data Science Project Lifecycle - CRISP-DM Model</td>
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<tr>
<td><strong>Basics of Statistics</strong></td>
<td>- Statistics Concepts, Random variable, Type of Random variables, Central Tendencies – Mean, Mode, Median, Probability, Probability Distribution of Random variables, PMF, PDF, CDF Type of RV – Nominal, Ordinal, Interval, Ratio, Variance, Standard Deviation, Normal Distribution, Standard Normal Distribution, Binomial Distribution, Poisson Distribution</td>
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<tr>
<td><strong>Advanced Statistics</strong></td>
<td>- Sampling, Inferential Statistics, Sampling Distribution, Central Limit Theorem, Simulation, Null and Alternative Hypothesis, Hypothesis Testing, 1 tail test and 2 tail test, type I and Type II error, z test &amp; t test</td>
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<tr>
<td><strong>Python Programming for Data Science (Lab)</strong></td>
<td>- Introduction to Python, Anaconda &amp; Spyder, Installation &amp; Configuration, Data Structures in Python - List, Tuples, Array in NumPy, Matrices, Data frame in Pandas, Control Structure &amp; Functions – If-Else, For loop, While loop, Slicing, dicing &amp; filter operations</td>
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<tr>
<td><strong>Applied Statistics in Python (Lab)</strong></td>
<td>- Normal distribution, Simulation, Hypothesis testing, Other statistical concepts using Python</td>
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<td><strong>Real World Data Science &amp; Machine Learning Case Studies in Python (Lab)</strong></td>
<td>- Model Validation/Cross validation techniques, Parameter tuning, Model evaluation metrics, MSE,RMSE, R square, Adjusted R Square, Confusion Matrix, Bias and Variance, Under fitting, over Fitting, ML Case Studies on - Regression, Classification, Decision Tree, Random Forest, Clustering, Time Series Analysis</td>
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COGNIXIA’s KEY DIFFERENTIATORS

- LIFETIME LMS ACCESS
- 24 x 7 SUPPORT
- REAL-LIFE PROJECTS & CASE STUDIES
- INDUSTRY EXPERTS AS TRAINERS
- INDUSTRY STANDARD CERTIFICATE
EXIT PROFILE

DATA SCIENTIST

DATA ARCHITECT
TESTIMONIALS

ELIJAH JEVONS, MALAYSIA
A perfect mix of theory and practical! I recommend this course for every IT professional out there.

CHRISTOPHER WAKELIN, SINGAPORE
I knew Python a bit so I was inclined to take this course as Data Science and Machine Learning have great career prospects. It would have been difficult to learn from huge texts that do not cover all topics. Cognixia has a very impressive curriculum that focuses on the basics and covers advanced topics as well. Thank you for offering such courses.

ALANNAH ABEL, SINGAPORE
A big Thanks to Cognixia and my trainer to help me choose the right technology platform. As suggested, Python is the best language to start from. So, I took the course on Data Science and Machine Learning which helped me in my career prospects.

Max W, USA
This training program is awesome! The concepts are very well explained and the course curriculum is well structured. Hope to see more relevant algorithms for various functionalities. Overall, I am extremely happy with Team Cognixia.

Gregory T, USA
The Trainers are extremely patient and have sound understanding of Machine Learning Concepts, Data Science Concepts, and Python Language Codes. It was an amazing live-virtual experience by Cognixia.
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