



Data Science with Python Training

About Cognixia

Cognixia, formerly known as Collabera TACT, is a Collabera Learning Solutions Company.

Being a consistently awarded Digital Technology Training Company, we bring you the best quality technology courses and certifications. With our in-house incubators on Digital technologies like IoT, Cyber Security, Machine Learning, AI & Deep Learning, Blockchain, Cloud, DevOps & other domains, Cognixia can help in transforming your workforce and partner with you in your Digital transformation strategy.

Since 2014, we have trained and up-skilled over 100,000 people across 37 countries. With 1300+ experienced trainers, 250+ courses, state-of-the-art infrastructure, we bring you the best learning experience.

Cognixia provides multiple learning models – Public batches as well as custom built private batches for individuals as well as corporates. Our training delivery models are Instructor led online trainings, Classroom trainings and On-demand self-paced digital trainings.

Cognixia has been recognized as the Best training provider in Digital technologies like Big Data, IoT, Cloud Computing and DevOps. We are ranked amongst Top 5 emerging technologies training companies, and have been awarded as the Best Training Company by various prestigious bodies.

Cognixia is a MAPR Advantage Partner, Hortonworks Community Partner, RedHat Enterprise Partner, Microsoft Silver Learning Partner and an Authorised Training Partner with DELL EMC, Pivotal, VMware, RSA Technologies and Automation Anywhere.



OUR AWARDS & AFFILIATIONS



Asian Training &
Leadership Award, Dubai



SOME FORMIDABLE NAMES AS OUR TRAINING PARTNERS



Silver
Microsoft
Partner



vmware®

RSA®

Pivotal



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

Topics Covered	
Introduction to Data Science	Data Science Introduction, Data Science Toolkit, Job outlook, Prerequisite, Target Audience, Data Science Project Lifecycle - CRISP-DM Model
Basics of Statistics	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
Advanced Statistics	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 & t test
Python Programming for Data Science (Lab)	Introduction to Python, Anaconda & Spyder, Installation & Configuration, Data Structures in Python -List -Tuples -Array in NumPy -Matrices -Data frame in Pandas; Control Structure & Functions – If-Else, For loop, While loop, Slicing, dicing & filter operations
Applied Statistics in Python (Lab)	Normal distribution, Simulation, Hypothesis testing, Other statistical concepts using Python
Graphics and Data Visualization, Exploratory Data Analysis in Python (Lab)	Graphics and Data Visualization libraries in Python - Plotly, - Matplotlib, - Seaborn - other useful packages/functions in Python Exploratory Data Analysis Exercise in Python
Machine Learning Concepts	Introduction to machine Learning Supervised and Unsupervised ML, Parametric/Non parametric Machine Learning Algorithms, Machine Learning Models - Linear Regression - Logistic Regression - Classification & KNN - Decision trees - Random Forest - Clustering - K Means & hierarchical Clustering, - Time Series Analysis - ARIMA Models, - Support vector Machine 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.
Real World Data Science & Machine Learning Case Studies in Python (Lab)	ML Case Studies on - Regression - Classification - Decision Tree - Random Forest - Clustering - Time Series Analysis

COGNIXIA's KEY DIFFERENTIATORS



LIFETIME LMS ACCESS



24 x 7 SUPPORT



REAL-LIFE PROJECTS & CASE STUDIES



INDUSTRY EXPERTS AS TRAINERS



REAL-TIME CLOCK MODULE



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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To learn more visit
<https://www.cognixia.com/>