

# Certificate in Artificial Intelligence and Machine Learning in Python

[eLearning]

```
#!/usr/bin/env python
# tag is an utility to rename files according to a set of
# Copyright 2012 calendros

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import sys
import os
import re
import argparse

import unittest

# @return a list containing tuples where key is a filename and
# a list of tags for this file.
def parse_filenames(plain_filenames):
    ret = []
    regex = re.compile('^(.*)\.(.*)$')
    for fn_arg in plain_filenames:
        tags = []
        dirname = os.path.dirname(fn_arg)
        fn = os.path.basename(fn_arg)
        base, ext = os.path.splitext(fn)
        match = re.match(base)
        if match is not None:
            base = match.group(1).strip()
            strtags = match.group(2).strip()
            if strtags != '':
                for tag in strtags.split('.'):
                    if tag != '': tags.add(tag)
            tags = sorted(tags) # sort + back to a list
            base = base.strip()
            ret.append((dirname, fn), base, tags, ext))
    return ret

# @return a list containing tuples (filename:tag_list)
# @param filenames list of complex type filenames
def add_tag_filenames(tags):
    tag = tag.strip()
    return [(dirname, fn), base,
            sorted(tags + [tag]), # modify is here: copy + sort + uniq
            ext)]

# @return a list containing tuples (filename:tag_list)
# @param filenames list of complex type filenames
def del_tag_filenames(tags):
```



**EY**

Building a better working world



# Certificate in Artificial Intelligence and Machine Learning in Python

## About the course

Artificial Intelligence (AI) and Machine Learning (ML) are increasingly becoming popular among today's organizations. The adoption of AI has entered the mainstream, but in most organizations, it remains in the early stages and is used for developing strategies and for governance. Although these technologies are still emerging; they are delivering practical benefits to help resolve real problems.

Keeping the upcoming demand in mind, EY has launched a comprehensive eLearning program on Artificial Intelligence and Machine Learning using Python. The program will help you to learn AI and ML algorithms in a step-by-step format. In this course, you will understand Python's concepts for AI, ML and related concepts like Artificial Neural Network, K Means

Theorem, Natural Language Processing, Deep Learning, Naïve Bayes Theorem, etc.

Currently Python's certification is one of the most sought after programming certifications in the world. There are more than 8.2 million developers who use Python, making it one of the most popular languages for ML and Internet-of-Things (IoT) apps. New-age and tech companies like IBM, Netflix, Google, YouTube, NASA, Amazon, Instagram and Facebook also use Python for their apps.

## Course deliverables

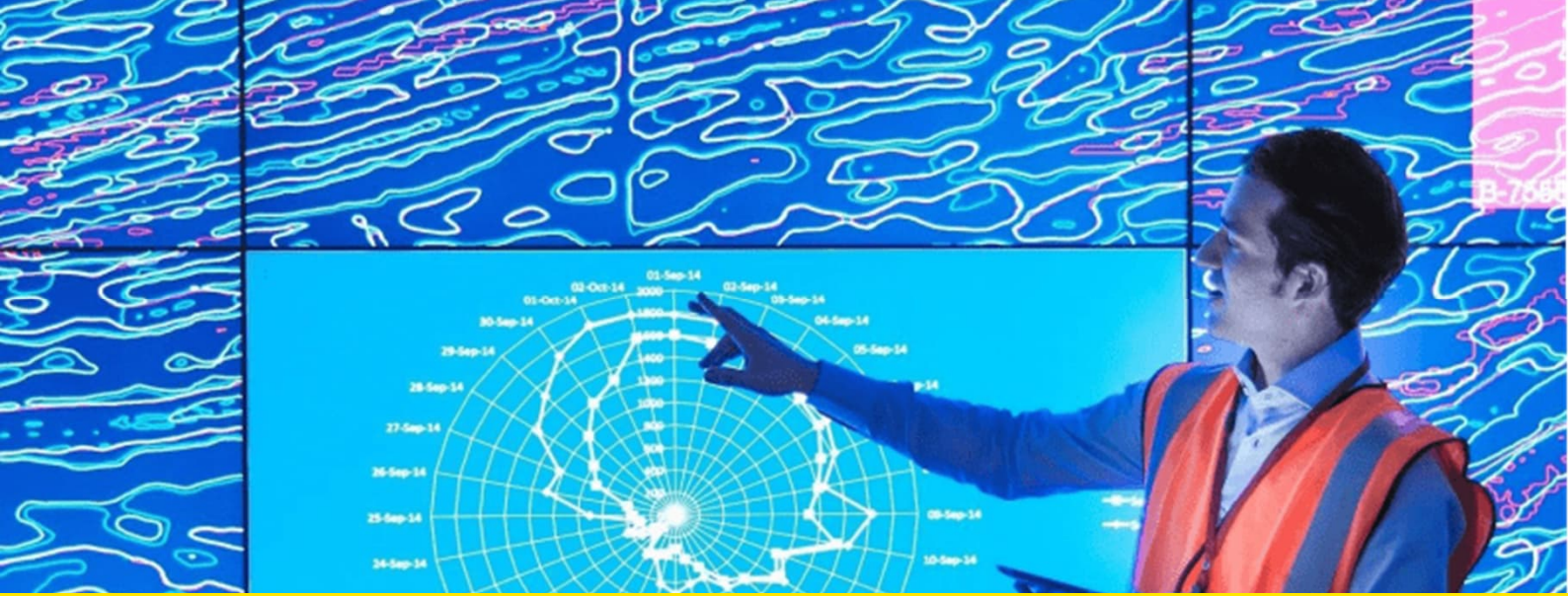
- ▶ 10+ hours of eLearning through videos
- ▶ Presentations
- ▶ Includes datasets
- ▶ Online assessment
- ▶ Certificate of Completion
- ▶ Query support through email
- ▶ Six months of LMS access

## Benefits of the course

- ▶ In-depth learning of AI and ML algorithms through practical examples
- ▶ May build capability to implement tools built on AI platforms
- ▶ The course enables you to learn and acquire the required skills in Python at analytics and program development
- ▶ The course can help you create your own AI and ML solutions
- ▶ Learn from the experienced professionals and industry experts

## Who should take this course?

- ▶ Working professionals who intend to build their careers in the field of analytics
- ▶ Working professionals who intend to build their careers in the field of ML and AI
- ▶ Professionals who are currently in the Big Data and data science domains
- ▶ Professionals from quality and testing team
- ▶ IT professionals in scripting and automation industry
- ▶ Entrepreneurs
- ▶ Fresh graduates and young professionals
- ▶ Mid-level managers
- ▶ Professionals working with Management Information System (MIS) and operations



## Course coverage

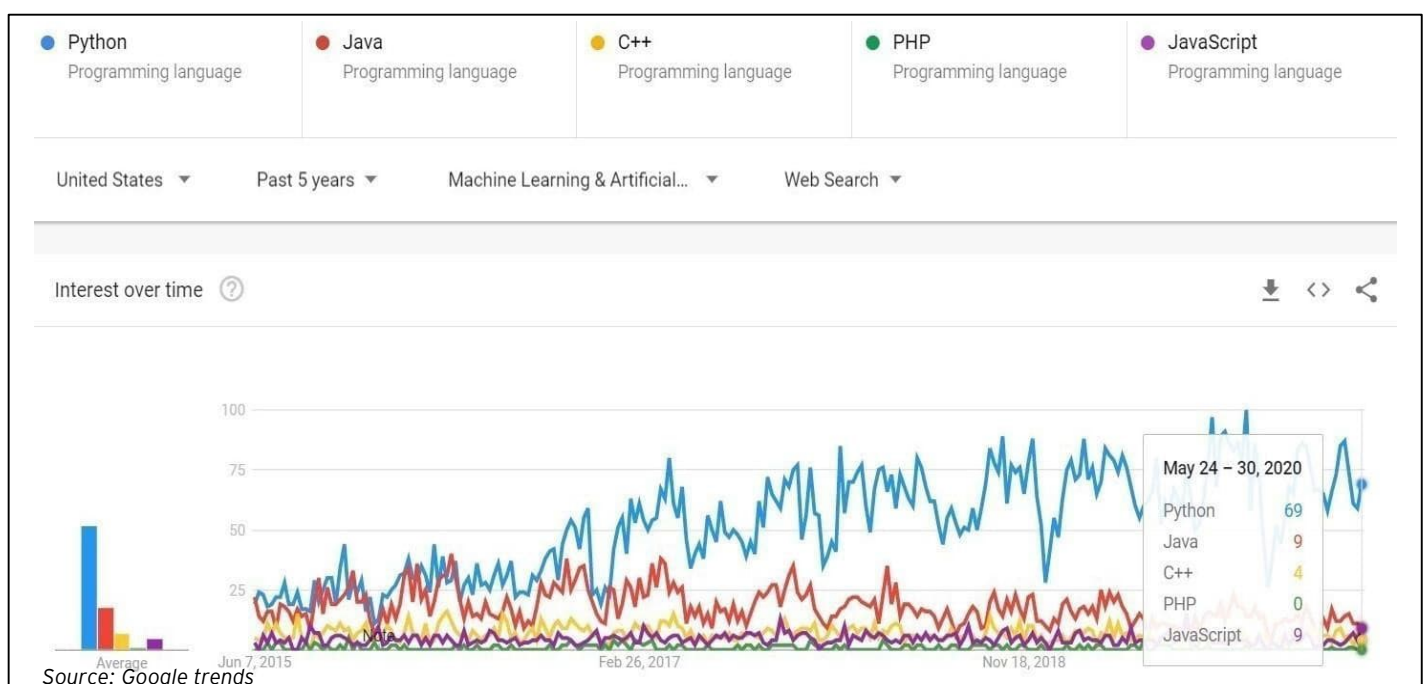
- ▶ Artificial Neural Network
- ▶ Unsupervised Learning-K means Clustering Algorithm in Machine Learning
- ▶ KNN methods
- ▶ Naïve Bayes Theorem
- ▶ Principal Component Analytics
- ▶ Random Forest for weather dataset
- ▶ Deep Learning
- ▶ Neural Networks Natural Language Processing (NLP)
- ▶ Reinforcement Learning

## Assessment and Certification

EY will award "Certificate of Completion" to participants at the end of the program.

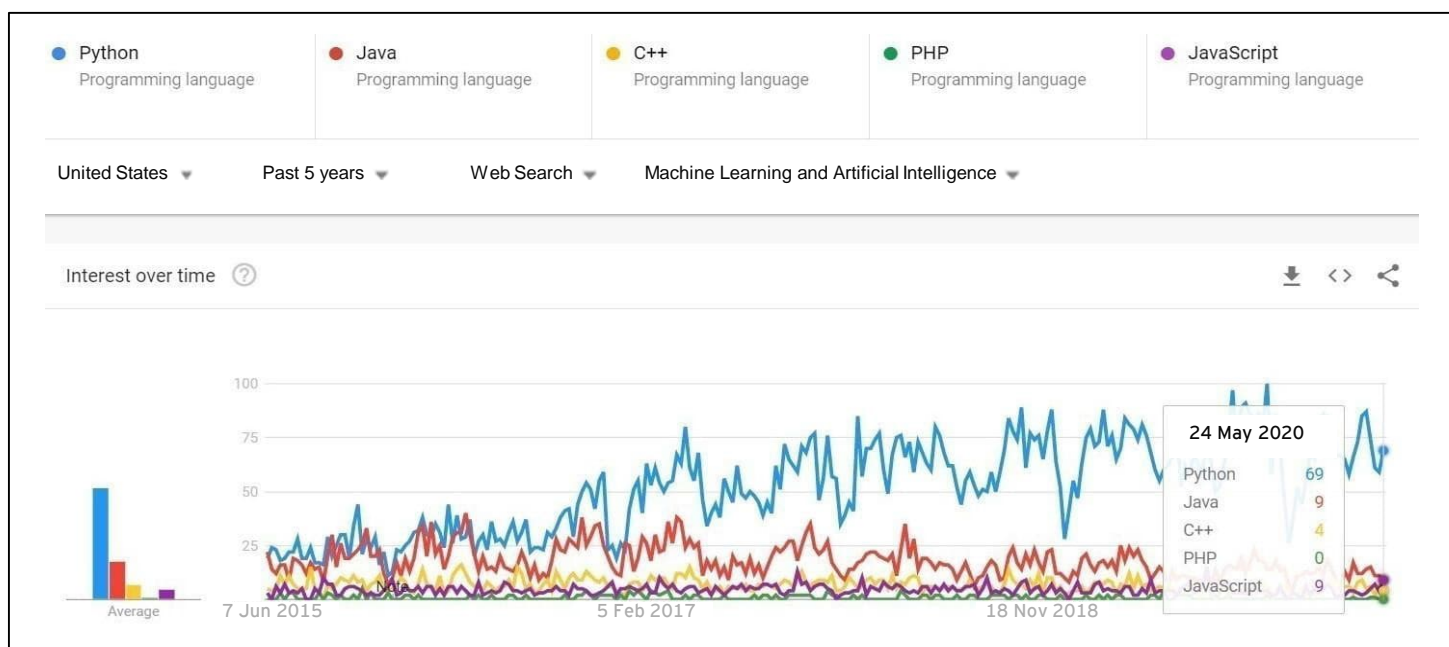
- ▶ Assessment would be based on MCQ's
- ▶ Participant needs to achieve a minimum score of 50% to pass the exam
- ▶ All participants who meet the above criteria would be awarded a certificate of completion

## Python's popularity in last one year





## Python's popularity in last five years



Source: Google trends

### Course fee

INR 12,000 plus taxes

### Contact

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### Our other eLearning courses

- ▶ Certificate in IFRS
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- ▶ Certificate in Exploratory Analytics in Python
- ▶ Certificate in Advance Analytics Using R
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- ▶ Certificate in Data Visualization Using Tableau
- ▶ Certificate in Business Intelligence with Power BI
- ▶ Certificate in Advance Analytics using R
- ▶ Certificate in Lean Six Sigma Green Belt



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## About EY Learning Solutions

In today's testing business environment, with organizational transformation and regulatory change constant features, a flexible and cost-effective workforce is critical. High-quality training is a crucial element of innovative talent management, to improve performance and ensure that your teams can respond to today's challenges and are equipped for career success.

We, at EYFAAS, realized this need and accordingly we have set up a dedicated "Learning Solution" practice to help corporate and practicing professionals to deal with new requirements. FAAS Learning Solutions supplements EY's primary range of services and provide business specific training solutions for our clients and business communities throughout India, Europe, the Middle East and Africa. This is done with the help of a multidisciplinary team of trainers from around the world. As a globally integrated firm, we bring global insight to our training programs.

All training programs are regularly updated to reflect changing trends and guidance. Our practical, relevant and stimulating courses are facilitated by highly competent trainers who have first-hand knowledge of the subject matter. We recognize that each client will have a different history, size, location and sector; therefore, programs can be tailored to specific needs of your business.

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