Python

Build a portfolio, create a network, and land your dream job.

Libraries

Table of Contents

Python

TRAINING BASKET
QUALIFY FOR TOMORROW

Welcome

The Job Ready curriculum from Training Basket is a structured, self-paced online instruction that will give you complete knowledge of Python in just two months. As a Python learner, you'll master all the features & Data Type in Python. For example Strings, Numbers, Tuples etc. Our Trainers are from the industry take you through from scratch to the advanced level and give exposure to industry-level projects from the ground up and provide you with a solid foundation in Python & it's libraries. You'll learn about various tools of Python. Your course will culminate in the study of Python and Data Types which is the most widely used programming language.
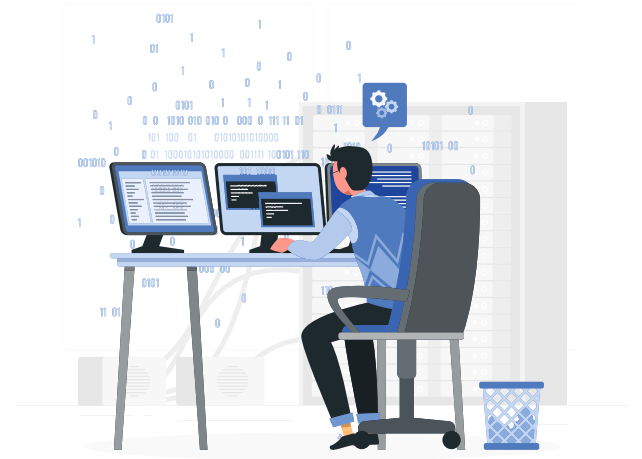
Statistics & Probability enables technical systems to perceive their environment, deal with what they perceive, solve problems and act to achieve a specific goal. This is a one-of-a-kind online learning environment.

Bootcamp-style program that prepares you for a high-paying career in tech

Each unit in the Training Basket curriculum teaches a core concept, skill, language component, or framework. You learn by viewing videos, and you may reinforce your skills by doing interactive programming quizzes and challenges. Mini-exercises will help you implement everything you've learned, and then you'll apply all you've learned in an individually graded, hard assignment with feedback. By completing all 3 projects in this training and passing the final exam, you will receive a Training Basket Certificate of Achievement and have the skills that will better prepare you for entry-level employment as a Python Developer.

Designed For Success

Online learning may be difficult, and we understand how difficult it can be to learn on your own. Thankfully, We've created AWARD-WINNING LMS to Learn through 24*7 interactive LMS with PPTs, Videos, Assignments, Case Studies & Quizzes along with a progress tracker with flexibility to match your needs your hectic way of life.

Key Benefits of this Job-ready Training

Study at your own pace

Live support and an online community

Study and career guidance

A professional and finished portfolio

Our Mission

Training Basket works to make education more inclusive and accessible so that individuals may accomplish their goals. We've taught over 50,000 individuals how to code and design since 2017, and our objective is to achieve long-term, systemic change in the IT industry. Competency-based learning is used in Training Basket training programs to reinforce what students have learned. We've reinvented the learning process and created a tried-and-true approach to help you get the skills and information you need to achieve your objectives. Stay on track with our points system, badges, and weekly activity journal, which has been scientifically proven to enhance motivation. You didn't merely view a video when you finished a course; you learned, practiced, and internalized an idea. Plus, at the end of each lesson, Training Basket walks you through an immersive project, so you'll have a portfolio of work ready to present as soon as you're through. Our Job-Ready programs are geared toward beginners
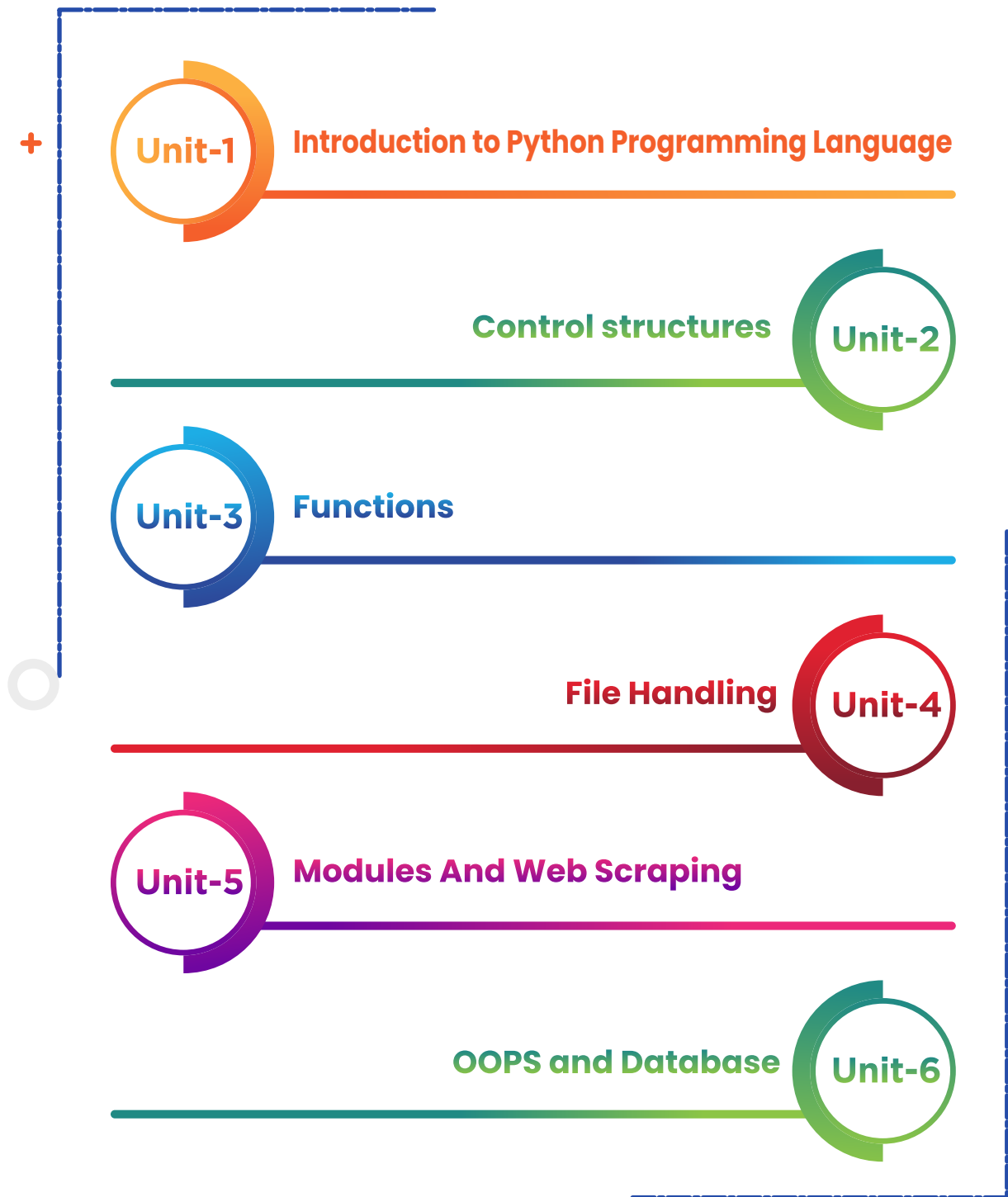
Training Basket's mission is to diversify the tech industry through online-learning

however, if you already have some experience but want to advance, Training Basket offers current and relevant skills to help you reach where you need to go. You'll additionally benefit from the Training Basket Slack, a thriving online community where you can ask questions and network with other students, regardless of your past experience level. You'll have weekly office hours, and Training Basket support professionals will be accessible for advice and encouragement.

We designed this program to be an accessible alternative to bootcamps

We concluded that in order to diversify the IT industry, we needed a curriculum that was fully beginner-friendly, didn't result in student debt and didn't demand any repayment. Many bootcamps cost huge amounts of money, or worse, force graduates to take a share of their salary when they obtain a job. At a fraction of the cost of bootcamps, Training Basket provides high-quality courses, comprehensive learning assistance, and professional expertise.

Units & Overview

Unit-1 — Introduction to Python Programming Language

Control structures — **Unit-2**

Unit-3 — Functions

File Handling — **Unit-4**

Unit-5 — Modules And Web Scraping

OOPS and Database — **Unit-6**

TRAINING BASKET
QUALIFY FOR TOMORROW

Python

Introduction to Python Programming Language
- Getting Started with Python
- Introduction to Python and its features
- Installing Python and choosing an IDE
- Working with Jupyter Notebook
- Writing your first Python code
- Working with Interactive and Script mode
- Structure of Python Program
- Basic Introduction to OOP
- Variables and Operators in Python
- Variable Naming Rules and Assignments
- Python Keywords
- Input and Output
- Operators used in Python:
  - Arithmetic
  - Assignment
  - Comparison
  - Logical
  - Bitwise
  - Identity
  - Membership
- Data Type In Python
  - Understanding various data types in python and its operations:
    - Usage of operators on Data Types
    - Accessing Elements in sequences
    - Usage of Methods for each Data Type
    - Slicing and Indexing
    - Typecasting Data Types
- Data types:
  - Numbers
  - Strings
  - Lists
  - Tuples
  - Set
  - Frozenset
  - Dictionary

Control Structures

📅 Week 2

Control Flow In Python
- Conditional Flow:
  - if,elif,else Statement
  - Nested statements
  - Indentation in Python, Usage of Pass statement
- Loops in Python:
  - For and While
  - Nested Loop
  - Usage of Range function
  - Usage of Break, Continue Loop Control Statement
  - List and Dictionary Comprehension
  - Exercises

Unit-3

Functions

📅 Week 3

- Functions in Python:
  - Usage of Built-in Functions
    - Example: map,filter,sum,max,min,sorted,dir,help,any,all, eval, enumerate,etc
- User Defined Functions:
  - Structure of UDF and the flow of execution
  - Types of UDF:
- No Argument
- Requires Arguments
- Keyword Arguments
- Fixed Arguments
- Variable Length Arguments
- Variable length Keyword Arguments
  - Scope of Variables
- Lambda Function

File Handling

📅 Week 4

- File Handling:
    - Opening a file and performing read/write operations
    - Introduction to using Excel files with python modules

Modules and Web Scraping

📅 Week 5-6

Modules and Packages:
- Importing Modules in Python Programs
- Working with Various Modules and creating User Defined Modules:
    - random, os, sys, time, math, numpy, pandas, re, etc
    - Structure of UDM, Usage of __name__
- Web Scraping using Python:
    - requests, urllib.request module

JSON with Python:
- Fetch Data in JSON
- API fetch data in JSON format
- Building an interactive Dictionary
- Basic introduction to Flask to create our own API for GET method
- Fetch data using our API by running the flask application on localhost

Exception Handling:
- Default Exception and Errors
- Catching and Raising Exceptions
- Try--Except--Else--Finally Blocks
- Asserts in Python
- User defined Exceptions

OOPS and Database

📅 Week 7-8

Introduction to Object-Oriented Programming with Python:
- Class and Objects
- Variable and methods
- Special Methods and Usage of Operators with objects
- Polymorphism, Inheritance, Abstraction and Encapsulation in Python

Database Handling:
- Connecting to sqlite database
- Connect to MySQL and executing sql query using python
- Multithreading , Multiprocessing
- Regular Expression:
- Usage of the Re Module
- Decorators, Generators and Iterators in Python

Doubt Sessions for overall topics
Project work

Assessment

Our lecturers are working experts in the field of technology who give useful and constructive advice.

This Job-Ready curriculum incorporates project-based learning, which allows you to apply the skills you're learning by working on projects of increasing complexity. Each project you create will be evaluated separately using thorough grading criteria that is specific to that assignment. Aside from an overall grade of Exceeds, You will receive individualized written feedback on your project in the form of Expectations, Meets Expectations, or Needs Work. Don't panic if your project is labeled as Needs Work.

You'll have the chance to fix the problems and resubmit the project for further assessment. As you go through the course, you will show your developing skillset by completing quizzes and coding tasks, culminating in a Final Exam. The Final Exam is your opportunity to demonstrate what you've learned during this Training. You must correctly answer at least 70% of the questions on the Final Exam in order to succeed. If you don't meet that standard, you can study and repeat the exam the next day.

TRAINING BASKET
QUALIFY FOR TOMORROW

Statistics on a Career

You'll be ready to start your new job in the tech business after you have your Certificate! As an entry-level Python Developer, these are some of the options available to you.
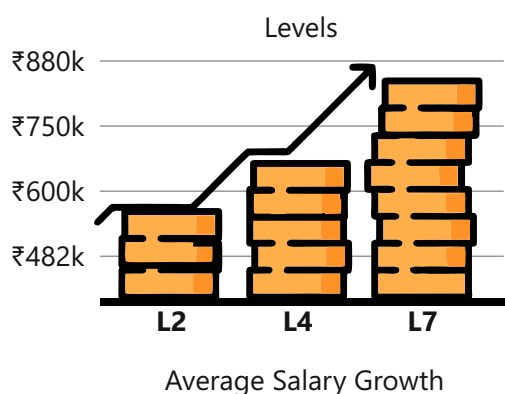
Day to Day Tasks as a Python Developer

- A Python Developer's daily tasks revolve around coding, designing, deploying, and debugging development projects.

- They may, however, also help organizations with their technological framework.

₹4,82,000

According to Glassdoor.com, the typical base income in INDIA

A typical entry-level Data Analyst job pays ₹50,000 higher per year than the National Average Wage Index.

With new technologies being invented every day, the IT sector has been rising year after year and shows no signs of slowing down.

Levels

₹880k

₹750k

₹600k

₹482k

L2   L4   L7

Average Salary Growth

Testimonials

❝
It was a great learning experience for me. I'm glad to have a good training by the knowledgeable trainer. He was highly experienced and patient, which was a good sign. Training Basket helped me build a perfect foundation for my career.

- Pramod
❞

❝
I enrolled myself in a Python course in Training Basket. My learning journey was good. The trainer helped me learn the concepts perfectly as the course content was well structured, even for beginners. The support team did an ideal job.

- Anshul Dixit
❞

❝
The course was excellent. The best part about the training was the course content, and the trainer's support was appreciable. My trainer encouraged and motivated me to get the right path in my career. My big thanks to Training Basket.

- Rajdeep Singh
❞

Partnerships

We collaborate with a number of IT businesses to guarantee that our students receive the most up-to-date and relevant education possible.

Companies With Which We Collaborate

IBM

TATA CONSULTANCY SERVICES

HCL

ERICSSON

DELL

Tech Mahindra

accenture

Deloitte.

wipro

splunk> turn data into doing

genpact

adaan

DiGiSPICE

TRAINING BASKET
QUALIFY FOR TOMORROW