django

## About Training Basket

At Training Basket, we take pride in ourselves for maintaining our position in the technology-training ecosystem as the top quality-training provider in "Specialized Technologies" and thus being able to get the best placement package available for our students in blue chip companies. Training Basket not only teaches the students, but also undertake corporate workshops and conduct seminars in various engineering colleges. We conduct programmes to promote the build-up of adequate and industry ready IT professionals for development and distribution of knowledge and grasp out to the larger association through continuation, at the state, national and international levels.

Training Basket team works at delivering the best technical training and facilities. We provoke new knowledge by alluring in cutting-edge research and to bolster students and expert expansion by offering IT industry high demand training programs.

In addition, global technology leaders like Red Hat and Times of India (TSW) have chosen Training Basket as their Master Certified Training partner to deliver their authentic, certified training, to enterprises and IT professionals across India.

## About Django

Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of Web development, so you can focus on writing your app without needing to reinvent the wheel. It's free and open source. Django Framework eliminates the need to write a lot of repetitive code that you will find being used in many different applications. The advantage of efficiency will never be underestimated. You can expect to build a project in much less time than would be achieved writing code without a framework.

Django developers are in great demand today because this framework is a perfect fit for creating prototypes and that is why it is used in cases of projects with a limited budget and start-ups. Experts believe that the experience and skills of Django web developers will keep increasing in popularity.

# DJANGO FRAMEWORK

**Course Duration : 40 Hours**

**Pre-Requisites:**
1. Python
2. Basics of HTML will be beneficial

**Benefits:**
- ✓ Become an expert in building Web Application using Django framework
- ✓ Work on Several minor and major projects while undergoing the course
- ✓ Expertise in Django REST framework
- ✓ Work on real-time use cases

**Training Topics:**

**Day 1**
- Python Refresher
  - Data Types and their Methods
    - Numbers, String, List, Tuple, Dictionary, Set
  - Control Flow
    - Conditional Statements and Loops
  - Function in Python
  - Modules
    - Using Existing modules
    - Understanding the usage of __init__.py
    - Working with packages
  - OOPs in Python

**Day 2**
- HTML/CSS
  - Basic introduction of HTML and CSS

**Day 3**
- Introduction to Django Web Framework
  - Explaining Web Framework
  - What is MVT pattern
  - Installing Django
  - Creating the first project
  - Running the Django server
  - Understanding the settings used in Django
  - HTTP concepts
  - URL Mapping
  - Introduction to Migrations
  - Introduction to admin Panel

- Basics of Views
- Create a simple View using Django

**Day 4**
- Templates and Forms in Django
  - The Django template language
  - Loading Template Files
  - Rendering Templates
  - Using templates with Django View and URL
  - Form Handling and Display
  - Creating a Form that accepts data from a user
  - Creating a basic Word count web application

**Day 5**
- Apps in Django
  - Introduction to apps in Django
  - Understanding the usage of each file in the Apps directory
  - Adding the apps to the project
  - Creating new apps for a project
  - Mapping URL to app views and templates

**Day 6**
- Models in Django
  - Using Database with Django
  - Introduction to models, Field Types
  - Creating our first Model
  - Registering our model to Admin
  - Understanding usage of makemigrations and migrate
  - Object-Relational Mapping
  - Using different Database with our model
  - Primary keys and Foreign keys

**Day 7, 8, 9, 10**
- View Layer in Django
  - Understanding the connection between:
    - URL
    - Model
    - Template
    - View
  - Connecting the model with View

- Executing Queries in our View file
- Creating Dynamic WebPages
- Request / Response objects and methods: GET, POST
- Adding form on template to do CRUD on DB
- Class Based Views
- Bootstrap
- Managing Static Files
- Creating a Portfolio Web application using Views, Apps, Models and Template
- Creating a simple Restaurant website displaying their Menu and Categories and separate page for each Item

**Day 11**
- Deployment
  - Basics of Git
  - Virtual Environment
  - Deploying the Portfolio, Restaurant  project on Cloud

**Day 12 ,13, 14, 15**
- Authentication in Django
  - Adding Login/Signup Buttons on Navbar
  - Creating User Registration Form
  - Displaying registration success message
  - Saving the Users
  - Logging in Users
  - The Profile Model
  - Adding the User Profile picture upload/display option
  - Displaying the User Page
- Building REST APIs with Django
  - Introduction to REST APIs
  - Introduction to Django REST Framework
  - Serialization and De-serialization
  - Setting up Vies and URLs for API
  - Creating a REST API
  - Creating a Profile API and a login API
  - Testing our API
  - Deploying our API

**Day 16-20**

- Projects (Self Paced)
  - Building a Web Based CV Generator
  - Building an Ecommerce Website
    - Setting up Project
    - Creating the required Apps and Models
    - Adding Products to Database
    - Displaying Products on Index/Home Page
    - Customizing the website by adding CSS
    - Adding Search Functionality
    - Pagination
    - Detail View for Products
    - Creating Cart and Saving Items into Cart
    - Creating a Checkout Page
    - Calculating the Order total
    - Adding Order total, Cart items to Database
    - Note : No Payment Gateway Integration
  - Building a Skill Assessment Web application
    - Creating a Project sketch
    - Model for MCQs
    - Creating the other required Models
    - User Login/Signup
    - Maintaining User Assessment Records
    - Maintaining a leader board

**Q:** **Why should I choose Training Basket over other training providers?**

Ans. Training Basket provides a unique amalgamation of quality, convenience, flexibility and cost. Training Basket has some of the best trainers in the industry. Our trainers excel not just in depth and width of knowledge, but also in their patience and ability to explain difficult concepts in simple terms.

Training Basket has made serious investments with long-term vision for ensuring good environmental factor for studies by first buying their own suites in the prestigious iThum Towers in NOIDA, Sec-62. This lets us configure our labs and classroom suited best to our student's comfort and focused studies.

**Q:** **What is the criterion for availing the Training Basket job assistance program?**

Ans: All Training Basket students who have successfully completed their training in any of our courses are directly eligible for placement assistance.

**Q:** **Which are the companies that Training Basket has placed students in the past?**

Ans: We have exclusive tie ups with MNC's like Ericsson, Cisco, Cognizant, Tech Mahindra, MEON, Bingo, Genpact etc.

**Q: Do I need a prior industry experience in getting an interview opportunity?**

Ans: There is no need to have prior opportunity for getting an interview call. The successful completion of any industry level technology training at Training Basket is like an industry experience. This training makes you confident to clear interviews and we also conduct in-house mock interviews on our online assessment platform where we assess our student's kills by testing their code online or industry specific assessment before sending them for interviews.

**Q:** **How does Training Basket assist in placement?**

Ans: You will be guided on creating an attractive template based resume. You will get opportunity to attend free personality development program and mock interviews conducted by our SME's to boost your confidence for real interviews. Plus you will be given our level assessment platform where we assess our student's kills by testing their code online or industry specific assessment.

**Q:** **If I don't clear in first attempt, will I get another chance?**

Ans: Yes, for sure. Your resume will be active on our job portal and will be visible to all our associates and clients. Training Basket will continue to send your resume to future job requirements matching your profile till you land a job.

**Q:** **Does Training Basket Guarantee job through it's job assistance program ?**

Ans: Training Basket does not guarantee job placement but it will continue to assist you on best efforts basis to place you in it's affiliated companies' network.

# COMPANIES WHERE OUR STUDENTS ARE PLACED

Tech Mahindra

DELL

Source Soft Solutions
We only believe in the best

Chi Networks

ADS-eVER

MEON
DELIVERING GREAT SURFACES

BioMax

NECTAR PHYTOCHEMS

BINGO
Change • Innovate • Lead

Dimensions
Nine Dimensions Infotech

WTS Webtech Solutions

HCL

IBM

Infosys

accenture

HUAWEI

Reliance
Jio Infocomm

pinga solutions

DATA BRIDGE
MARKET RESEARCH

CoreIP
Technology Pvt Ltd

iSOURCe

network solutions

NUCLEUS SOFTWARE

Shailers
Solutions...for your need

hp

SAMSUNG

indiatech
Solutions