



**INTENSIVE CODE CAMP**  
**FULL-STACK WEB & GENERATIVE AI**  
**DEVELOPMENT USING PYTHON**  
**2025/2026**

**Be one of our Graduates Family**

## Track Overview

**Information Technology Institute**

People Develop Countries .. We Develop People



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- ☎ +202-35355656
- 📍 28 Km Cairo / Alexandria Desert Road,  
B148 Smart Village, Egypt
- 📘 Intensive Training Program
- 🌐 [www.iti.gov.eg](http://www.iti.gov.eg)

# Full-Stack Web & Generative AI Development using Python



## DESCRIPTION

ITI Intensive Code Camp – (Full stack development using Python) Specialization - is a product based program that will empower you to learn how to build a complete responsive web application using HTML, CSS, JavaScript, Frontend frameworks like React or Angular, PostgreSQL, Python, Django and Flask and utilizing the recent trends of GenAI in developing the web applications.



## WHO MAY APPLY

All University Graduates with prerequisites of having a first degree from a recognized university or institution of higher education.



## TRACK DURATION

594 Hours around 4+ months (learning and project ).



## DELIVERY APPROACH

Blended between Self-paced, Synchronous Learning and Guided Practices with a Project Based Focused Journey.

## BEFORE YOU APPLY

**Candidates will have to complete the following prerequisite courses to join our program:**

- Programming fundamentals at <https://maharatech.gov.eg/course/view.php?id=36>
- OOP Fundamentals at <https://maharatech.gov.eg/course/view.php?id=2206>
- Web Fundamentals at [www.maharatech.gov.eg](http://www.maharatech.gov.eg)
- Linux Fundamental at <https://maharatech.gov.eg/course/view.php?id=2155>
- Python Fundamental at [www.maharatech.gov.eg](http://www.maharatech.gov.eg) or other resources that you prefer
- ITI values that could be found here: [http:// www.iti.gov.eg/Site/AboutUs](http://www.iti.gov.eg/Site/AboutUs)
- DB fundamentals: <https://maharatech.gov.eg/course/view.php?id=740>

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## GRADUATE PROFILES

- Full stack with Python developer
- Python Backend Developer
- Odoos developer



## REQUIRED TOOLS

Hardware: Personal laptop with 8 GB RAM, Core i5  
Software: Ubuntu or any Linux distribution



## TRACK PRACTICES

Candidates are working together in one of the following Suggested Projects (Web application):

- Instagram
- Uber
- Netflix
- Pinterest

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## OVERALL LEARNING JOURNEY OUTLINE

**6%**

### Gen AI Category

Introduction to Generative AI and prompt engineering  
AI-powered Coding Assistant tools  
Developing Gen-AI based software

**52.3%**

### Web Develop using Python Category

Python Basics & Object-Oriented Programming using Python  
Python Frameworks (Flask, Django)  
Open-Source ERP and CRM System (Odoo)  
Client – Side technologies  
HTML5 & CSS3  
Bootstrap  
Apache  
JQuery  
Frontend frameworks(Angular or React)  
UX/UI design basics

**6.5%**

### Computing Foundation Category

Operating Systems Fundamentals Workshop  
Database Fundamentals Workshop  
Introduction to Unit Testing Workshop

**9%**

### Databases

Database Fundamentals  
PostgreSQL Database

**14.2%**

### Administration

Red Hat System Administration I  
Version Control Systems  
Bash shell scripting  
Introduction to docker

**12%**

### Employability and Soft skills

Effective Communication Skills  
Effective Presentation Skills  
Work Ethics Workshop  
CV Writing & Interviewing Skills  
Freelancing Skills

## OTHER USEFUL INFORMATION

Industry partners:

Vodafone, Yaoota, Orange, Valeo, Wazzuf, Etisalat, IBM