



ISAP – Infocampus Software Assurance Program

Python Full Stack with AI



About Infocampus

Excellence in Networking & Software Training InfoCampus is a leading IT training institute in Kerala, offering world-class Networking and Software Development programs under the guidance of industry experts. With a perfect blend of Cisco-certified networking courses and cutting-edge software training, we equip students with the skills demanded by global IT giants.

15+ Years of Expertise | **5K+** Successful Graduates

Learn from certified industry experts

Not just trainers, but professionals who have worked in top tech firms.

100% practical training

Real labs, real projects, real experience

Placement-focused approach

Resume building, mock interviews, and direct recruitment support.

Affordable fees premium quality

No compromise on learning standards.

ISAP – Infocampus Software Assurance Program

Python Full Stack with AI

We proudly present our premier course – Python Full Stack with AI – your gateway to IT success! Led by a 15+ year industry expert, this intensive program delivers in-demand skills in Python, Django, ML, and AI through real-world projects and live mentoring. Master full-stack development, AI integration, and cloud deployment while honing interview skills. Complete the course successfully and we guarantee your placement, or get 100% fee refund.

Duration **10** Months

Offline & Online

- Live Classes
- Recorded Video Lectures (Lifetime access)
- Hands-On Coding Sessions (Real-time practice)



Program Highlights

**Tailored Curriculum
aligned with Industry
Standards**

**Inclusive & Immersive
Hybrid Training
Sessions**

**Free Soft Skills
Training**

**Industry Expert
Sessions**

**Industry-Ready
Skills**

**Doubt-Solving
Sessions**

**Work on Real-World
Applications**

**Get placed in Top
Tech companies**



Python Basics

- Programming Languages, Full Stack, SDLC, Problem-solving
 - Language processors, Flowchart, Algorithm
 - Python Introduction
 - Tokens
 - Control Statements (if, if-else)
 - Looping (for, while, range)
 - Pattern Printing
 - Functions
 - Recursion & Lambda functions
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Data Structures

- List
 - Strings
 - Dictionary
 - Tuple
 - Set
 - Shallow Copy & Deep Copy
-

OOPs

- Class & Objects, OOP concepts
- Constructors, Inheritance
- Abstraction, Encapsulation, Polymorphism
- Operator overloading, Multiple Inheritance, Static Methods and Class Methods

Pickling, Modules and Packages

Functional Programming

Regular Expressions and Decorators

File Handling

Exception Handling

Project & Git



Front End

HTML

CSS

JavaScript

Bootstrap

Project (HTML + CSS + JavaScript + Bootstrap)

React

- React Components
- Lists and Keys
- Forms and User Input
- React Hooks (State, Lifecycle)
- Context API and Data Grids
- React Router
- State Management with Redux



Back End

MySQL

- Introduction to MySQL and Basic SQL Commands
 - Querying Data and Filtering Results
 - Aggregate Functions, Grouping, and Subqueries
 - Joins, Relationships, and Database Design
 - Python Connection to MySQL and Database Management
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Django

Django Fundamentals

- | | |
|---------------------------------|-----------------------------------|
| ○ Introduction to Django | ○ Django Forms |
| ○ Django Applications and Views | ○ Handling Static and Media Files |
| ○ Templates in Django | ○ Working with Models and the ORM |
| ○ Django Models | ○ Django User Authentication |
| ○ Django Admin Interface | ○ Building a Simple Web App |
| | ○ REST API Development |



Data Science & AI Integration

Data Science Essentials

- NumPy, Pandas (Data Manipulation)
- Matplotlib, Seaborn (Data Visualization)
- SQL for Data Science

Machine Learning & AI

- Supervised & Unsupervised Learning
- Regression, Classification, Clustering (Scikit-Learn)
- NLP Basics (NLTK, SpaCy)
- Deep Learning Intro (TensorFlow/Keras)



Deployment & DevOps

CI/CD Pipelines (GitHub Actions)

Cloud Deployment (AWS, Heroku)



Capstone Projects

Project 1: AI-Powered E-Commerce Website (Django + ML)

Project 2: Real-Time Data Analytics Dashboard

Project 3: Chatbot with NLP (Python + Django)

Communication & Soft skill training

- Mock interviews
- CV preparation
- Language training
- Communication skill
- Personality development



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