WISDOM SPROUTS
IT Training Hub

Python Programming

Duration: 30 Days

Register Here

7770043825

406'White Square,
Hinjewadi, Pune.

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Python Programming

- Introduction to Python Programming
  - Introduction to Python and its features
  - Setting up a Python development environment (IDEs, Python interpreter)
  - First Python program: Hello World
  - Basic structure of a Python program
  - Variables, data types, and basic operations
- Control Flow
  - Conditional statements (if, else if, else)
  - Loops (while, for, break, continue)
  - Iteration through lists, dictionaries, and other data structures
  - Switching and decision-making with dictionaries
- Functions and Modular Programming
  - Defining and declaring functions
  - Function arguments and return values
  - Scope and lifetime of variables
  - Lambda functions and anonymous functions (optional)
  - Error handling with try-except blocks
- Data Structures in Python
  - Lists, tuples, sets, and dictionaries
  - List comprehensions and generator expressions
  - Slicing and indexing
  - Sorting and searching in lists
  - Working with multi-dimensional lists
- Object-Oriented Programming (OOP)
  - Classes and objects in Python
  - Inheritance and polymorphism
  - Encapsulation and abstraction
  - Magic methods and operator overloading
  - Exception handling in classes
- Python Standard Library
  - Overview of the Python Standard Library (modules like os, sys, datetime, etc.)
  - Working with standard modules and functions
  - String manipulation in Python
  - Date and time manipulation
- File I/O
  - File handling in Python (open, read, write, close)
  - Reading and writing data to/from files
  - Working with text and binary files
  - Context managers and with statements

- Database Connectivity with SQLite
  - Introduction to databases and SQL
  - SQLite database basics
  - Performing database operations with Python and SQLite
  - Error handling and data retrieval
- Best Practices and Coding Standards
  - Writing clean and maintainable code
  - Code commenting and documentation
  - Debugging techniques and tools
  - Coding standards and style guides
- Practical Applications and Projects
  - Implementing real-world projects to apply Python programming concepts
  - Building command-line utilities
  - File manipulation and data processing
  - Simple games or simulations

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Bonus Content

- Guest Lectures by Industry Professionals
- Mock Interviews and Resume Building Workshops
- Guidance on Building a Professional Portfolio
- Soft Skills Development: Communication, Teamwork, Problem-Solving
- Mid-Course Assessment to Gauge Understanding and Progress
- Job Interview Preparation and Mock Interview Sessions
- Assistance in Job Placement and Internships
- Access to Alumni Network and Industry Events

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Sample Mini Projects

- Student Gradebook - Build a program to manage a student gradebook. Users can input student names and their corresponding grades. The program should calculate and display the average grade, highest grade, and lowest grade.
- File Reader and Analyzer - Develop a program that reads text from a file, counts the number of words and characters, and displays the results. Users should be able to specify the file to analyze through command-line arguments.
- To-Do List - Build a to-do list program where users can add, remove, and mark tasks as completed. Tasks should be stored in memory using dynamic memory allocation (malloc and free).

Sample Course Completion Certificate

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CERTIFICATE OF COMPLETION

HAS BEEN PRESENTED TO

CANDIDATE NAME

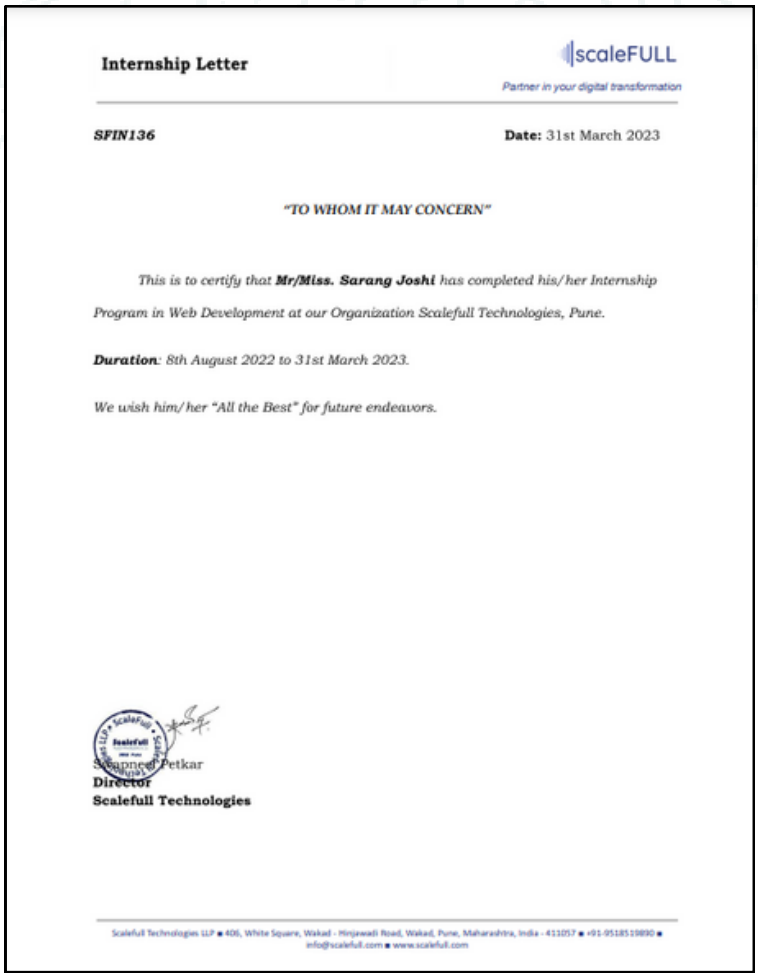
FOR SUCCESSFULLY COMPLETING THE "FULL STACK WEB DEVELOPMENT - MERN STACK" COURSE AT WISDOM SPROUTS - IT TRAINING HUB, PUNE. FROM "2ND JANUARY 2023 "TO "31ST MARCH 2023" HIS/ HER PERFORMANCE HAS BEEN SATISFACTORY SO AS TO FULFILL THE REQUIREMENTS FOR SUCCESSFUL COMPLETION OF THE TRAINING.

IN TESTIMONY THEREOF, THIS CERTIFICATE IS AWARDED ON THE 31ST OF MARCH, 2023.

MR. SWAPNEEL PETKAR
MANAGING DIRECTOR, WISDOM SPROUTS

WS230327

Sample Internship Completion Letter



Internship Letter

scaleFULL
Partner in your digital transformation

SFIN136 **Date:** 31st March 2023

"TO WHOM IT MAY CONCERN"

This is to certify that ***Mr/Miss. Sarang Joshi*** *has completed his/her Internship Program in Web Development at our Organization Scalefull Technologies, Pune.*

Duration*: 8th August 2022 to 31st March 2023.*

We wish him/her "All the Best" for future endeavors.

Swapneel Petkar
Director
Scalefull Technologies

Scalefull Technologies LLP ■ 406, White Square, Wakad - Hinjawadi Road, Wakad, Pune, Maharashtra, India - 411057 ■ +91-9518519890 ■
info@scalefull.com ■ www.scalefull.com

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Course Details		
1	Duration	30 days
2	Mode of Training	Offline/Online
3	Registration Fees	₹ 999

Register Here