

Certificate in Python and MySQL Fundamentals



"Ready to dive into the world of data analysis and programming? Consider enrolling in a Certificate in Python and MySQL Fundamentals." Certificate in Python and MySQL Fundamentals is a foundational course designed to equip enthusiasts like you with the essential skills and knowledge to work effectively with Python programming and MySQL databases. It covers topics such as the history of Python, memory management, installation and setup, data types and operators, control flow statements, string manipulation, lists, exception handling, logging, JSON data, and object-oriented programming. By completing this course, you will have a solid foundation in Python and be able to write effective programs.

Syllabus & Skills covered (60 hours)



Certificate in Python and MYSQL Fundamentals will provide a comprehensive introduction to Python programming. It covers topics such as:

- **Python History and Evolution:** Understanding the history, versions, features, and limitations of Python.
- **Memory Management:** Learning how memory is managed in Python, including allocation, garbage collection, and reference counting.
- **Installation and Setup:** Installing Python on Windows, configuring environment variables, and setting up IDEs.
- **Data Types and Operators:** Identifying and using various data types and operators in Python.
- **Control Flow:** Writing programs using control flow statements to control execution flow.
- **String Operations:** Performing string operations such as concatenation, slicing, formatting, and searching.
- **Lists:** Creating and manipulating lists using built-in methods.
- **Exception Handling:** Implementing error handling using try-except blocks and creating custom exceptions.
- **Logging and JSON:** Configuring Python loggers, formatting log messages, and working with JSON data.
- **Object-Oriented Programming:** Applying object-oriented concepts such as classes, objects, inheritance, polymorphism, and encapsulation.

Career Opportunities



- **Junior Python Developer**
- **Database Administrator**
- **Web Development (Back-End)**
- **Data Analyst (Beginner)**
- **Scripting Assistant**

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