PURPLE GRIFFON
The IT Service Management Training & Consultancy Specialists

Course Title: Applied Data Science With Python And Jupyter	**Course Duration**: 1.0 Day
Exam: Not Included	**Exam Type**: Proctored Exam
Qualification: Applied Data Science With Python And Jupyter Certificate	

Course Syllabus

Our Applied Data Science With Python And Jupyter training course will cover the following Modules:

Module 1: Jupyter Fundamentals

- Basic Functionality and Features
- Our First Analysis - The Boston Housing Dataset

Module 2: Data Cleaning and Advanced Machine Learning

- Preparing to Train a Predictive Model
- Training Classification Models

Module 3: Web Scraping and Interactive Visualisations

- Scraping Web Page Data

Course Overview

Our Applied Data Science With Python And Jupyter training course you will:

- Learn about some of the most commonly used libraries that are part of the Anaconda distribution and then explore machine learning models with real datasets.
- learn about creating reproducible data processing pipelines, visualisations, and prediction models, all with the goal of giving you the skills and exposure you'll need for the real world.

Data Science is one of the fastest growing professions across all industries. Open source tools like Python have become increasingly popular, and when paired with Jupyter Notebooks, can provide a variety of data-science applications. Attend this one-day hands-on course and learn to leverage all that these powerful tools have to offer.

Course Learning Outcomes

Our Applied Data Science With Python And Jupyter training course will teach you to become proficient in the following:

- Jupyter Fundamentals
- Cleaning and Advanced Modelling
- Web Scraping and Interactive Visualisations
- Machine learning classification strategy
- Exploratory data analysis and investigation

- Knowledge of programming fundamentals and some experience with Python, including Python libraries, Pandas, Matplotlib, and scikit-learn.

Audience

Our Applied Data Science With Python And Jupyter training course will benefit several individuals and organisations including but not limited to:

- Data Analysts
- Business Analysts
- Data Scientists
- Data Engineers
- Software Developers
- Researchers
- IT Professionals
- Decision Makers
- Any Data Enthusiast

Entry-Level Requirements

Our Applied Data Science With Python And Jupyter training course requires attendees to have:

- Knowledge of programming fundamentals and some experience with Python, including Python libraries, Pandas, Matplotlib, and scikit-learn.

Recommended Reading

There is no recommended reading for our Applied Data Science With Python And Jupyter training course.

What's Included

Our Applied Data Science With Python And Jupyter training course contains the following:

- 1-day instructor-led training course
- One-on-one after course instructor coaching
- Pre-reading
- Course Manual
- Quizzes
- Exercises

Exam Information

Applied Data Science With Python And Jupyter Exam:

- Format: Multiple Choice
- Questions: 40
- Pass Mark: 70%

What's Next

Attendees may enjoy our three-day Introduction To Python training course.

Our three-day Introduction To Python training course will provide a foundation for learning and understanding the Python programming language. Python is a versatile and widely used programming language known for its simplicity, readability, and a large number of libraries and frameworks that make it suitable for various applications. We will teach you how to use Python's features, standard library modules, and third-party software packages.

Additional Information

Our Applied Data Science With Python And Jupyter training course offers several benefits to individuals and organisations including but not limited to:

- **In-Demand Skill Set**: Data science is a rapidly growing field, and proficiency in Python and Jupyter is highly valued by employers.
- **Practical Data Analysis Skills**: The training focuses on practical application, equipping you with the skills needed to manipulate, analyse, and visualise data using Python and Jupyter.
- **Industry-Relevant Techniques**: The training covers a range of data science techniques, including data manipulation, data visualisation, machine learning, and model evaluation.
- **Hands-On Experience**: The training typically includes hands-on exercises and projects, providing you with opportunities to apply the concepts and techniques learned.
- **Flexibility and Reproducibility**: Python and Jupyter offer flexibility and reproducibility in data analysis workflows.
- **Enhanced Problem-Solving Skills**: Data science involves solving complex problems and extracting meaningful insights from data.
- **Data-Driven Decision Making**: Data science skills empower you to make informed decisions based on data rather than relying solely on intuition or guesswork.
- **Career Advancement Opportunities**: Proficiency in Applied Data Science with Python and Jupyter can lead to career advancement opportunities, whether you are seeking a new job, aiming for a promotion within your current organisation, or considering entrepreneurship in the data science domain.
- **Networking and Community**: Python and Jupyter have a large and active community of data scientists and developers.
- **Lifelong Learning**: Data science is a rapidly evolving field, and learning Applied Data Science with Python and Jupyter is a stepping stone for continuous learning.