MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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CERTIFICATE IN DATA SCIENCE

"Turning Data into Decisions — Master the Science Behind Intelligent Insights."

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

In today's digital economy, Data Science is at the heart of innovation, strategy, and intelligent decision-making. From finance and healthcare to transport and e-commerce, organizations rely on data scientists to uncover patterns, predict trends, and provide actionable insights. This Certificate in Data Science program introduces participants to the core principles, tools, and applications of data science — blending statistics, programming, and machine learning to extract value from complex datasets.

Participants will learn how to manage, analyze, and visualize data using popular tools and programming languages like Python, R, and SQL, along with understanding modern analytical frameworks. The course emphasizes practical, hands-on experience and provides the skills required to translate data into meaningful business intelligence, making it ideal for professionals aiming to lead in a data-driven world.

Objectives

By the end of this course, participants will be able to:

- Understand the fundamental concepts and workflow of data science.
- Collect, clean, and prepare datasets for analysis.
- Apply statistical and computational techniques to solve real-world problems.
- Use Python and R for data manipulation, analysis, and visualization.
- Develop predictive models using machine learning algorithms.
- Communicate findings effectively using data visualization tools.
- Understand data ethics, privacy, and responsible data use.
- Implement data-driven strategies for business and organizational growth.

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Why Attend

Data Science has become one of the most sought-after skills globally, driving innovation and efficiency across industries. This program equips participants with both technical and analytical expertise to turn raw data into strategic knowledge. Whether you aim to transition into a data science career or enhance your analytical decision-making, this course offers the perfect blend of foundational theory and practical application to advance your professional profile.

Target Audience

This certification is suitable for:

- Business Analysts, IT Professionals, and Engineers
- Researchers, Economists, and Statisticians
- Managers and Policy Planners seeking data-based decisions
- Students and graduates pursuing a career in analytics or data science
- Professionals in marketing, operations, finance, or logistics
- Anyone interested in applying data science to organizational or societal challenges

Individual Benefits

- Build a strong foundation in programming, analytics, and statistics.
- Gain practical skills in data handling and visualization.
- Learn to use popular data science tools such as Python, R, and Jupyter.
- Acquire hands-on experience in machine learning and predictive analytics.
- Improve problem-solving and decision-making through data insights.
- Enhance employability and open pathways to high-demand data science roles.

Organizational Benefits

- Strengthen analytical and data-driven decision-making culture.
- Improve forecasting accuracy and strategic planning.
- Identify opportunities for innovation through data insights.
- Increase operational efficiency by using predictive models.
- Build in-house expertise in data analytics and machine learning.
- Enhance reporting, performance measurement, and risk management capabilities.

Instructional Methodology

This program combines interactive instruction with applied learning, ensuring participants gain real-world analytical skills through:

- Expert-led sessions and live demonstrations
- Practical workshops and exercises with real datasets
- Case studies across business, government, and technology sectors
- Group projects and collaborative problem-solving
- Guided programming labs in Python and R
- Final capstone project and presentation

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Course Outline

Module 1: Introduction to Data Science and the Data Lifecycle

Module 2: Data Collection, Cleaning, and Preprocessing Techniques

Module 3: Exploratory Data Analysis and Visualization (Python, R, Excel, Power BI)

Module 4: Statistical Analysis and Hypothesis Testing

Module 5: Introduction to Machine Learning — Supervised and Unsupervised Models

Module 6: Data Wrangling and Management using SQL and Pandas

Module 7: Predictive Modeling and Evaluation

Module 8: Data Ethics, Governance, and Security

Module 9: Business Applications of Data Science and Case Studies

Module 10: Capstone Project — Applying Data Science to Real-World Scenarios

Certification

Upon successful completion, participants will receive a Certificate in Data Science, formally recognizing their capability to analyze, interpret, and apply data-driven strategies for informed decision-making and organizational success.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**