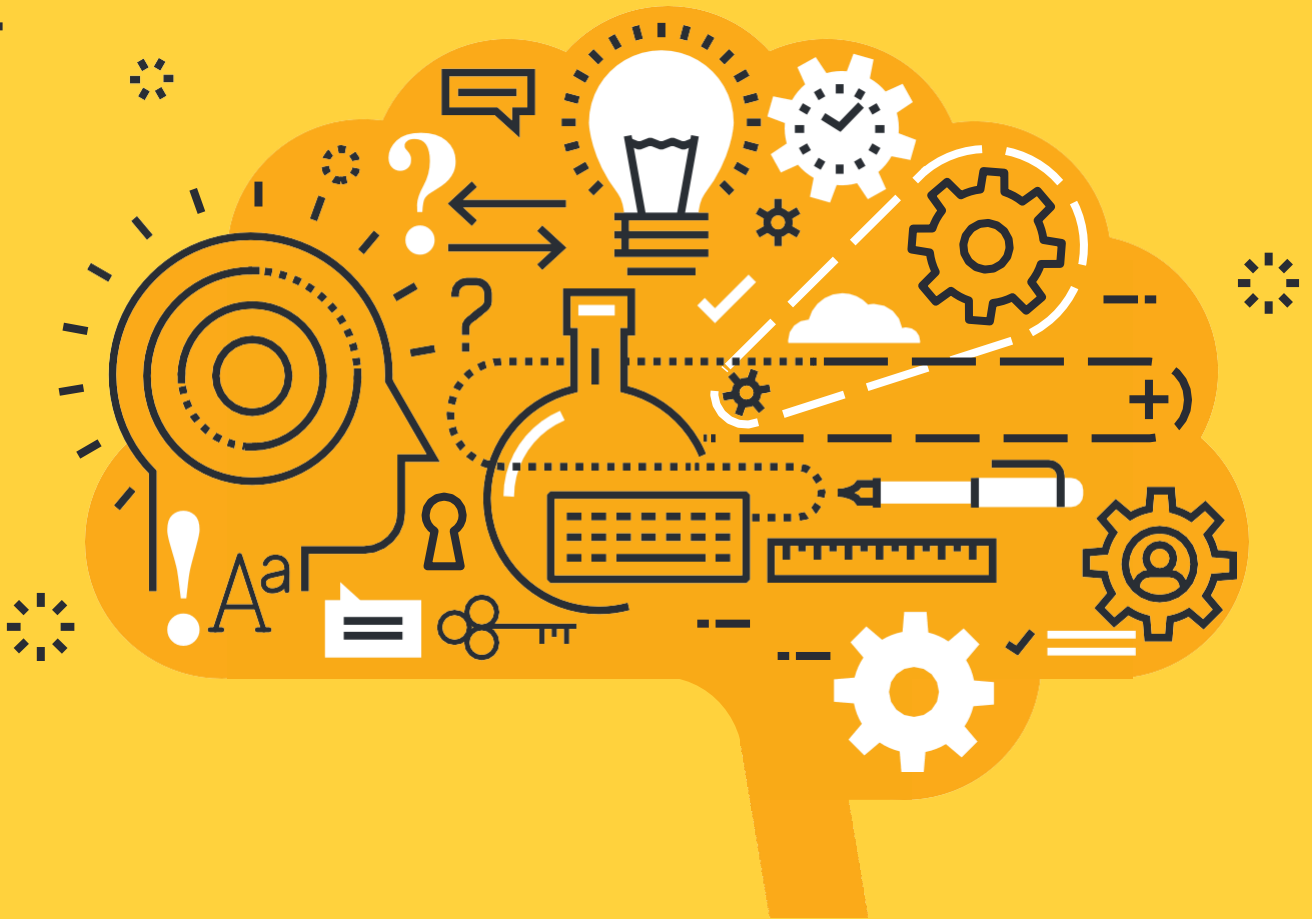




INSTITUTE OF  
MANAGEMENT  
PROFESSIONALS



# DATA SCIENCE DIPLOMA



## About Institute of Management Professionals (IMP)

**Institute of Management Professionals (IMP)** is an independent professional institute partnering with consultation companies in various fields dedicated to bringing all related marketing, sales and business development training.

Our mission is to help individuals with a competitive edge in their careers to face different job and life challenges.

Our training courses are designed and delivered by subject experts who are competent in providing solutions that are applicable to today's business challenges.



# ABOUT

## The Diploma

This diploma is the ideal scientific and practical choice for your excellence in data science.

This diploma is a combination of technical skills from both business sciences and technology to build a career future in one of the most important fields worldwide; where the most of global and innovative companies are utilizing data science to help making data-driven decisions after developing statistical models and algorithms.

# WHY STUDY DATA SCIENCE?

- Become an Expert Data Scientist.
- Opening the horizon for exciting and ever renewed career future worldwide in the field of data analysis and data science, which is characterized by a high salary for its employees.
- Excellence in business by mastering technological techniques to explore and analyze data to reach data-driven decisions and aid in predicting and forecasting
- Proficiency in data analysis using the most versatile and adaptable programming language: Python.
- Mastering the merit of making data-driven decisions

# DIPLOMA OBJECTIVES

Upon completing the diploma you will:

## Module 1

1. Intro to Data Career and Road Map
2. Learn about the Competencies for Data Sciences
3. Differentiate your Skill as Data Scientist

## Module 1

1. Understanding Databases Concepts & Relational Database Management
2. Creating Database Objects
3. Working with T-SQL Querying

## Module 3

1. Learn the important topics in statistics for Data Science & Data Analysis
2. Understanding The Concept Of
  - Mode, Median and Mean
  - Variance and Standard deviation
  - Probability
  - Descriptive statistics
  - Linear Algebra

# DIPLOMA OBJECTIVES

Upon completing the diploma you will:

## Module 4

1. Learn Python basics for Data Analysis
2. Working with Anaconda and Jupyter Notebook
3. Working with Panda - Data Analysis Library
4. Working With NumPy - Data Analysis Library
5. Visualization your Data Using Python
6. Using Python for web Scraping

## Module 5

1. Advance your Skill in Data Transformation & Data Modeling
2. Using Statistical & Math DAX
3. Develop Power BI Visual
4. Connect to SQL Or Any Database
5. Design & Implement Enterprise Dashboard

# DIPLOMA OBJECTIVES

- Introduction to Data Career & Data Competencies
- Databases Concepts & Relational Database
- Statistics for Data Science
- Data Analytics Using Python
- Data-Driven Decision-Making Using Power BI

# **DIPLOMA CONTENTS**

**Module 1 : Introduction To Data Career & Data Competencies**

**Module 2 : Databases Concepts & Relational Database**

- **Introduction to Databases Concepts & Relational Database Management**
- **Introduction to Microsoft SQL**
- **Core Database Concepts**
- **Data Storage**



# DIPLOMA CONTENTS

## Module 3 : Statistics for Data Science

### Basic Statistics

- Cases, Variables, Types of Variables
- Matrix and Frequency Table
- Graphs and Shapes of Distributions
- Mode, Median and Mean
- Range, Interquartile Range and Box Plot
- Variance and Standard deviation
- Basics of Regression

### Probability

- Elementary Probability
- Random Variables and Probability Distributions
- Normal Distribution, Binomial Distribution & Poisson

### Distribution

- Descriptive statistics
- Population vs samples
- Measures of Central Tendency & Variability
- Detection of Outliers
- Inferential Statistics
- Observational Studies and Experiments
- Sample and Population
- Population Distribution, Sample Distribution and Sampling

### Distribution

- Central Limit Theorem
- Point Estimates
- Confidence Intervals
- Introduction to Hypothesis Testing

# DIPLOMA CONTENTS

## Module 3 : Data Analytics Using Python

Introduction to Data Analytics with Python

Python Basics

- Basic Syntax
- Data Types
- Operators
- Control flow statements
- Decisions
- Loops
- Functions

Data Structures

- List and tuples
- Sets
- Dictionaries
- Strings

Files and Databases

- Reading from Files
- Writing into files
- Database connections

Anaconda and Jupyter Notebook

- Introduction to Anaconda Distribution
- Introduction to the Jupyter Notebook
- Introduction to Regex Regular Expression

Working with Matplotlib

Working with NumPy

Working with Pandas

Visualization and plotting

Web Scraping with Python



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# DIPLOMA CONTENTS

## Module 5 : Data-Driven Decision-Making Using Power BI

- Advanced Data Transformation
- Advanced Data Modeling
- Working with DAX in depth
- Working with M language in depth
- Working With Visuals in depth
- Artificial Intelligence Visuals



# FOR WHOM IS DATA SCIENCE DIPLOMA ?

For business professionals who have a passion for acquiring distinguished and distinct competencies in the field of data analysis and become able to make data-driven decisions.

For those who wish to excel in the field of data analysis, data-driven decision and get advanced to the stage of anticipation and prediction using the development of statistical models and algorithms using Python programming language.

**Prerequisites: Full knowledge of Data Analysis skills using Microsoft Excel and the business intelligence using Microsoft Power BI.**

## Contact us

To get more details regarding special discount for groups.

### facility Requirements :

Just need your laptop; preferred with the below features:

**Ram** > 8 GB or above " if 4 GB it will work but maybe slowly"

**CPU:** i3 5 gen or above, i5 4 gen or above, i7 3 gen or above

## **This Course Included Plus The Full Specialization 60 Training Hours**

- Classroom or and Interactive Online Training
- Self-Paced Learning Option
- Practical Quizzes & Assignments & Projects
- Graded Assignments with Peer Feedback
- Full Lifetime Access
- Certificate of Completion

### **Career Services**

- WUZZUF Badge

## Terms and Conditions

### CERTIFICATE OF COMPLETION

To have successfully completed; a trainee should:

- ✓ have an attendance rate of not less than 80% (or such higher attendance requirement as prescribed for the course);
- ✓ Pass the course practical assessments and projects in at least 70% of the total number of assignments as required in each training course.

### Postponing:

- Available only if requested by a trainee before the start of the program with minimum 3 days.
- After Starting The Course Postponing fees : 200 EGP

### Refund & Cancellation:

(all requests should be submitted via email):

[admins@imanagementpro.com](mailto:admins@imanagementpro.com)

- Request made five (5) days or more prior to the course start, 100% refund - deducted 200 EGP Administration Fees.
- Request after the 1<sup>st</sup> session of the course; 50% refund.
- Request after the 2<sup>nd</sup> session of the course, 25% refund.
- Request after the 3<sup>rd</sup> session of the course, no refund shall be done.

### FOR MORE INFORMATION:

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