Business Analyst

Master's Program
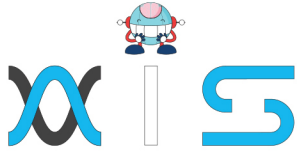
In Collaboration with IBM

www.aiservices.com.ph

SPARTAN
Allied Services
*Deliver Results - Create Value*

simpl**learn**

About the Course

The Business Analyst tools and techniques are amongst the most sought-after and highly-compensated digital economy skills. Accelerate your career with our acclaimed Business Analyst Master's Program, featuring the perfect mix of practical skills, with real-world case studies, extensive hands-on practicum and masterclasses by IBM experts.

This Master's Program is a blend of self-paced online videos, live virtual classes. Mentorship sessions provide you with a high engagement learning experience and real world applications, helping you master essential Business analysis skills. You will have in-depth exposure to concepts including data analysis, statistics, Agile Scrum methodologies, MS Excel, Tableau, R, Python, and SQL database, preparing you for an exciting career in Business Analysis.

Key Features

- 150+ hours of live virtual classes by industry experts

- 25+ hours of online self learning content

- Masterclasses by industry experts from IBM

- Capstone from 3 domains and 11+ projects with Industry data sets from Unilever, Amazon, etc.

- Exclusive IBM Hackathons, AMA and data analytics certification

- Industry recognized certifications from IBM and Simplilearn
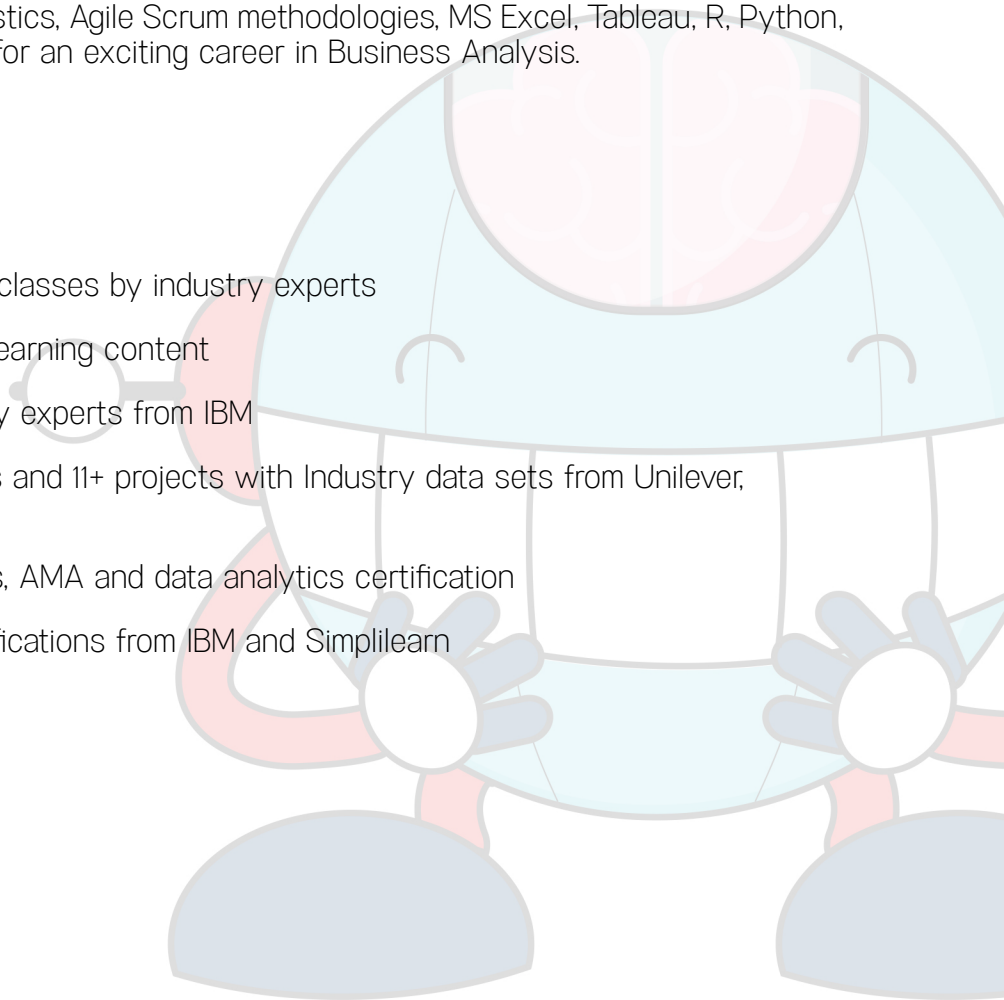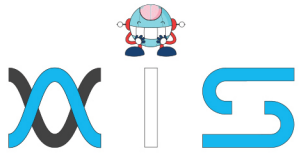
Learning Path - Data Analyst

1. Introduction to Data Analytics

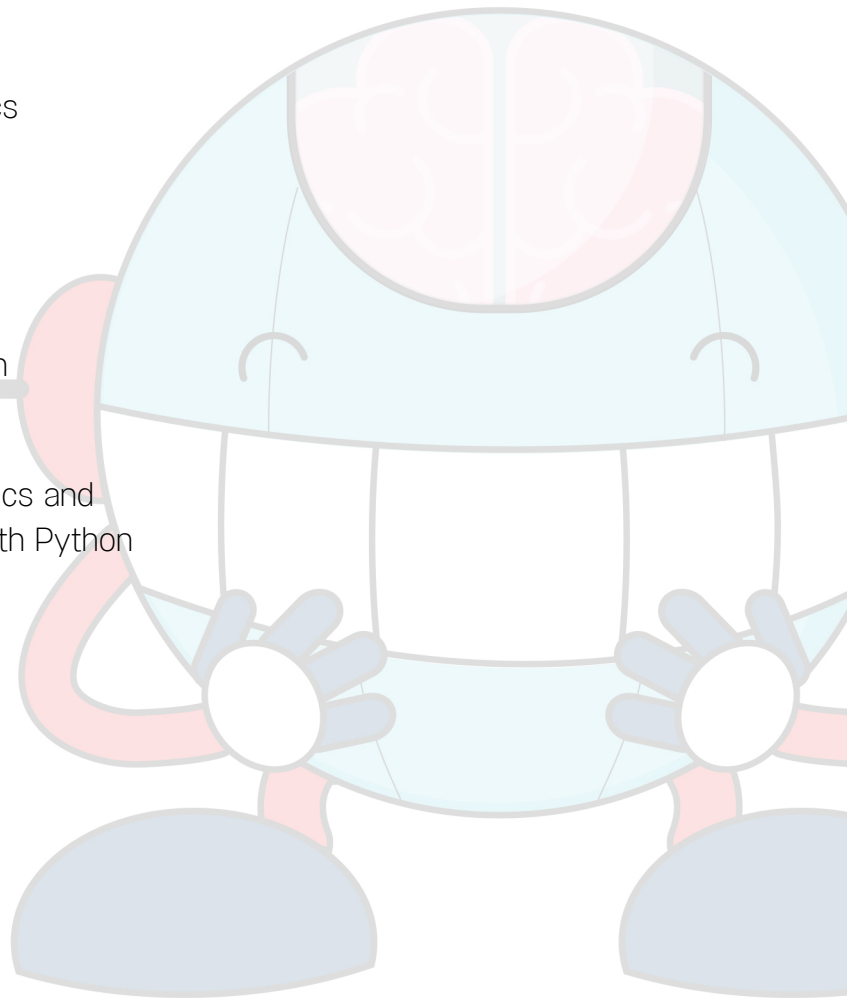2. Business Analytics with Excel

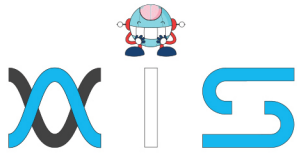3. Tableau Training

4. Data Science with R Programming

5. Programming Basics and Data Analytics with Python

6. Data Analyst Capstone

Data Analyst
Master's Program Outcomes

- Gain an in-depth understanding of data structure and data manipulation

- Understand essential statistical concepts, including measures of central tendency, dispersion, correlation, and regression

- Master SQL concepts such as Universal Query Tool and SQL command

- Write your first Python program by implementing concepts of variables, strings, functions, loops, and conditions

- Understand the nuances of lists, sets, dictionaries, conditions and branching, objects, and classes in Python

- Work with data in Python, including reading and writing files, loading, working, and saving data with Pandas

- Learn how to interpret data in Python using multi-dimensional arrays in NumPy, manipulate DataFrames in Pandas, use SciPy library of mathematical routines, and execute machine learning using Scikit-Learn

- Perform data analytics using popular Python libraries

- Gain insights on several data visualization libraries in Python, including Matplotlib, Seaborn, and Folium

- Gain an in-depth understanding of the basics of R, learning how to write your own R scripts

- Master R programming and understand how various statements are executed in R
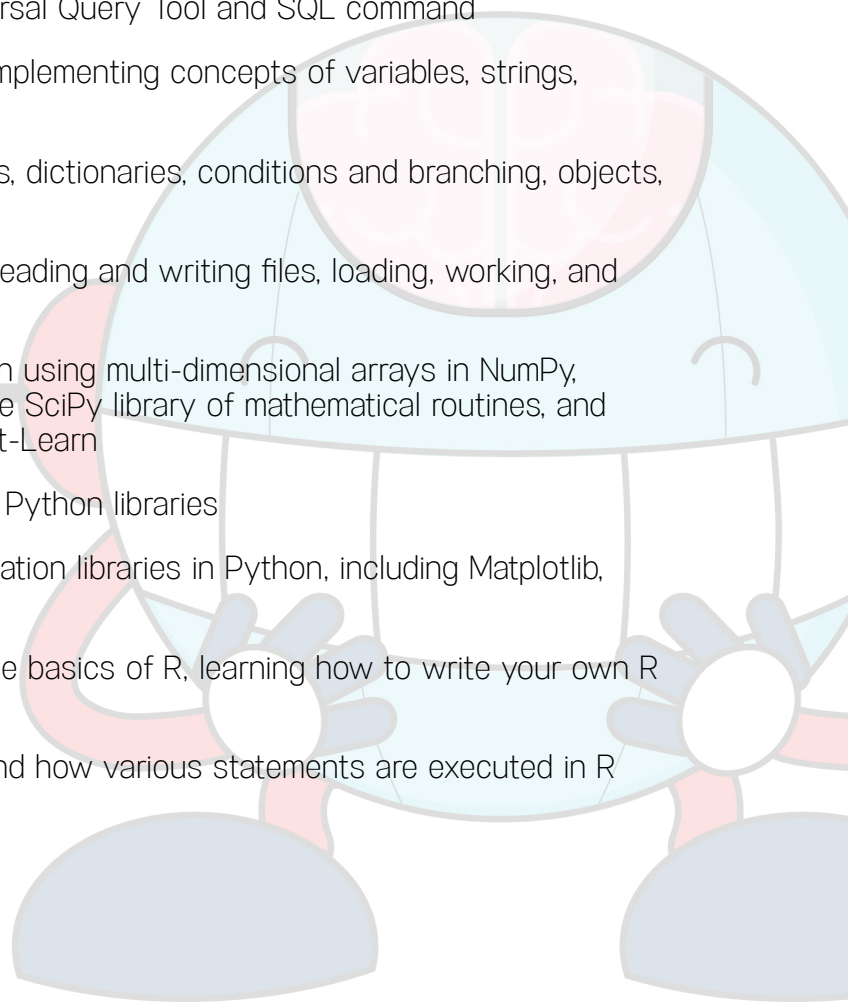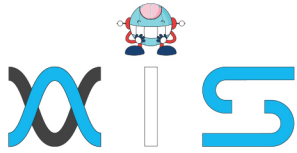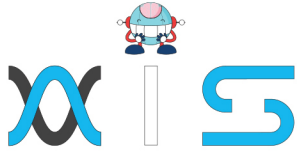
Who Should Enroll in this Program?

A career as a data analyst requires a foundation in statistics and mathematics. Aspiring professionals of any educational background with an analytical frame of mind are best suited to pursue the Data Analyst Master's Program, including:

- IT Professionals

- Banking and finance professionals

- Marketing managers

- Supply chain network managers

- Beginners in the data engineering domain

- Students in UG/ PG programs

STEP

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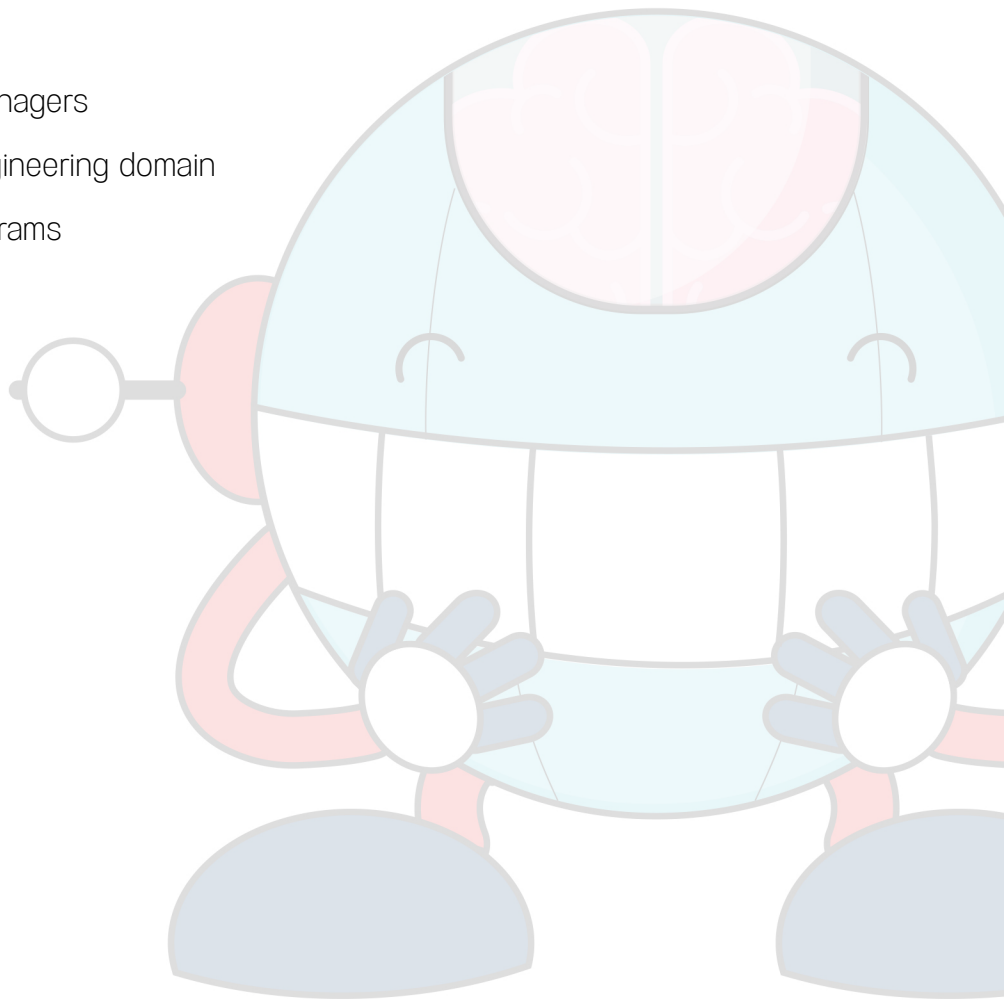
Statistics Essential

Simplilearn's Introduction to Data Analytics course will give you insights into applying data and analytics principles in your business. You will gain an understanding of the complete data analytics lifecycle, from problem definition to solution deployment. Through various industry-specific examples and case studies, you will learn how analytics, data visualization, and data science methodologies can be used to drive better business decisions.

Key Learning Objectives

- Understand how to solve analytical problems in real-world scenarios

- Define effective objectives for analytics projects

- Work with different types of data

- Understand the importance of data visualization to help make more effective business decisions

- Understand charts, graphs, and tools used for analytics and visualization and use them to derive meaningful insights

- Create an analytics adoption framework

- Identify upcoming trends in the data analytics field
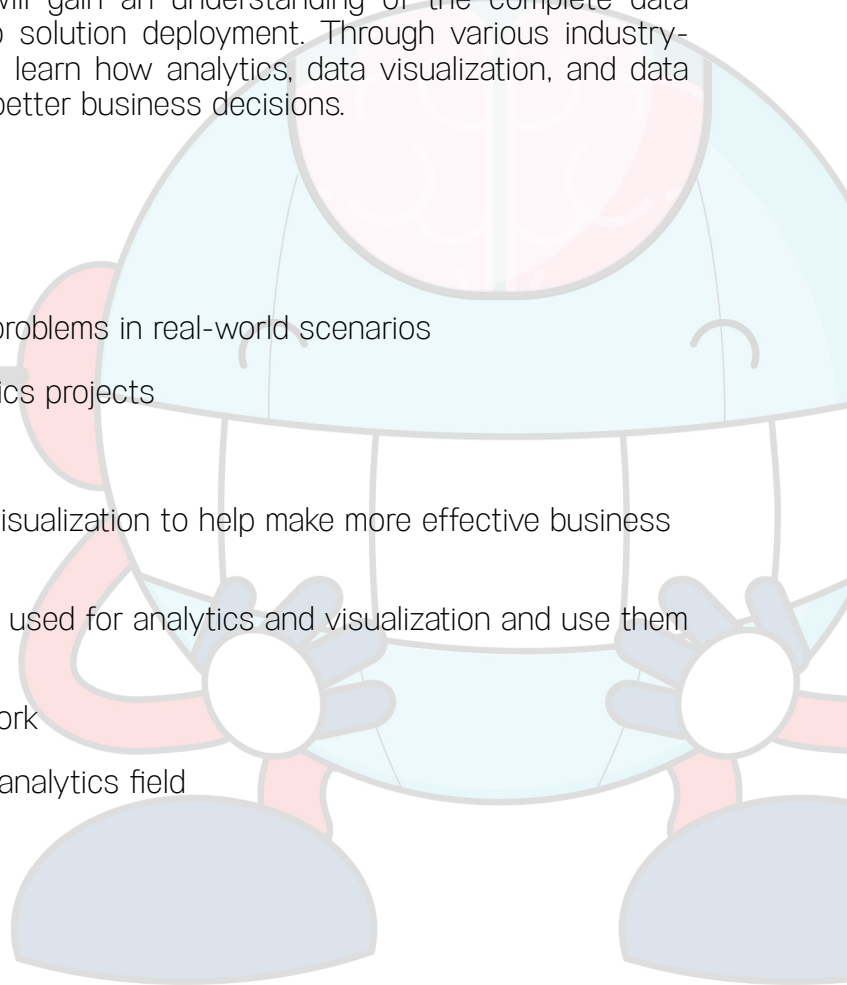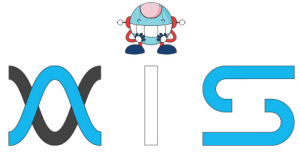
# Couse Curriculum

- Lesson 1 - Course Introduction

- Lesson 2 - Data Analytics Overview

- Lesson 3 - Dealing with Different Types of Data

- Lesson 4 - Data Visualization for Decision making

- Lesson 5 - Data Science, Data Analytics, and Machine Learning

- Lesson 6 - Data Science Methodology

- Lesson 7 - Data Analytics in Different Sectors

- Lesson 8 - Analytics Framework and Latest trends

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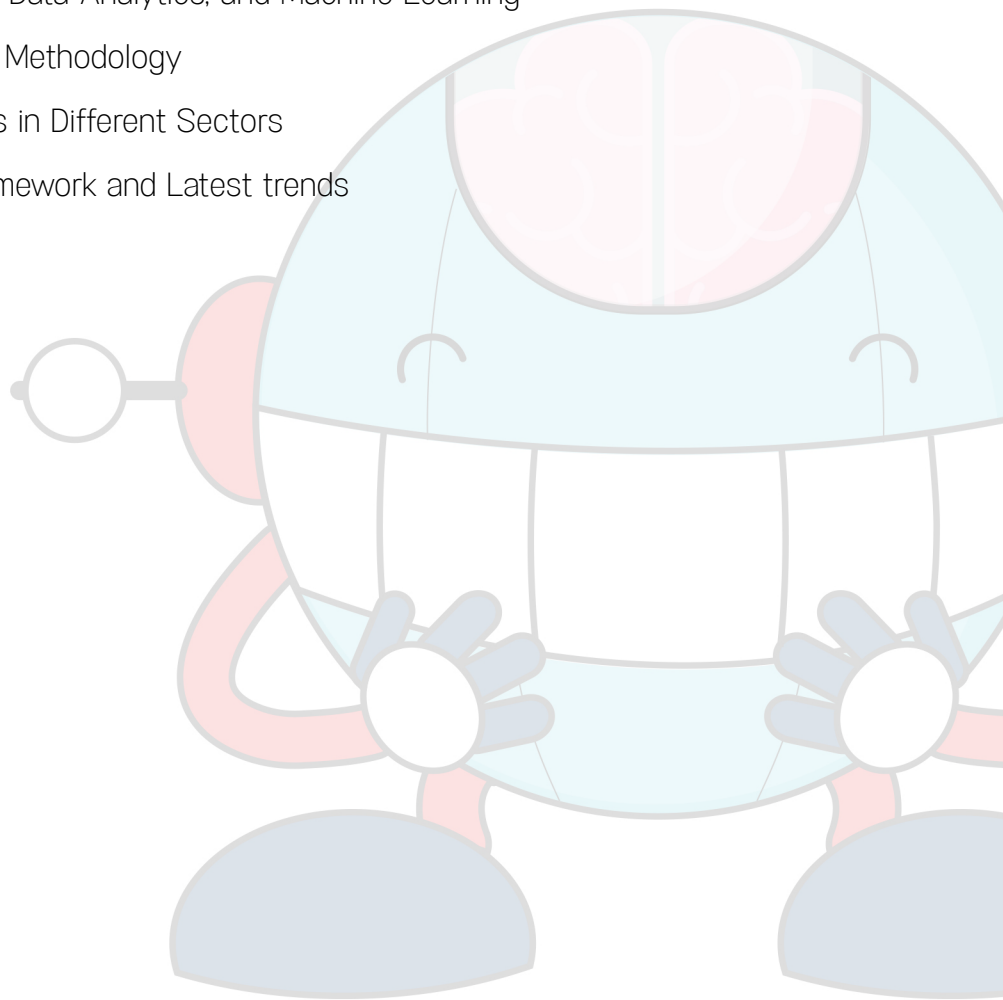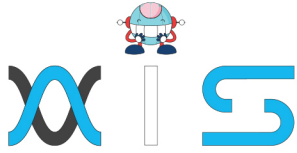
Business Analytics with Excel

Business Analytics with Excel training will boost your analytics career with powerful new Microsoft Excel skills. This business analytics training course will equip you with the concepts and hard skills required for a strong analytics career. You'll learn the basic concepts of data analysis and statistics, helping promote data-driven decision making. Your new knowledge of this commonly used tool combined with official business analytics certification is guaranteed to ensure career success.

Key Learning Objectives

- Understand the meaning of business analytics and its importance in the industry

- Grasp the fundamentals of Excel analytics functions and conditional formatting

- Learn how to analyze with complex datasets using pivot tables and slicers

- Solve stochastic and deterministic analytical problems using tools like scenario manager, solver, and goal seek

- Apply statistical tools and concepts like moving average, hypothesis testing, ANOVA, and regression to data sets using Excel

- Represent your findings using charts and dashboards

- Get introduced to the latest Microsoft analytic and visualization tools, such as Power BI
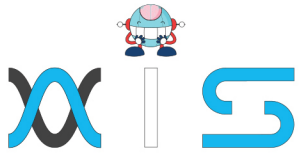
Couse Curriculum

- Lesson 1- Introduction to Business Analytics
- Lesson 2- Formatting Conditional Formatting and Important Functions
- Lesson 3- Analysing Data with Pivot Tables
- Lesson 4- Dashboarding
- Lesson 5- Business Analytics with Excel
- Lesson 6- Data Analysis Using Statistics
- Lesson 7- Power BI

STEP

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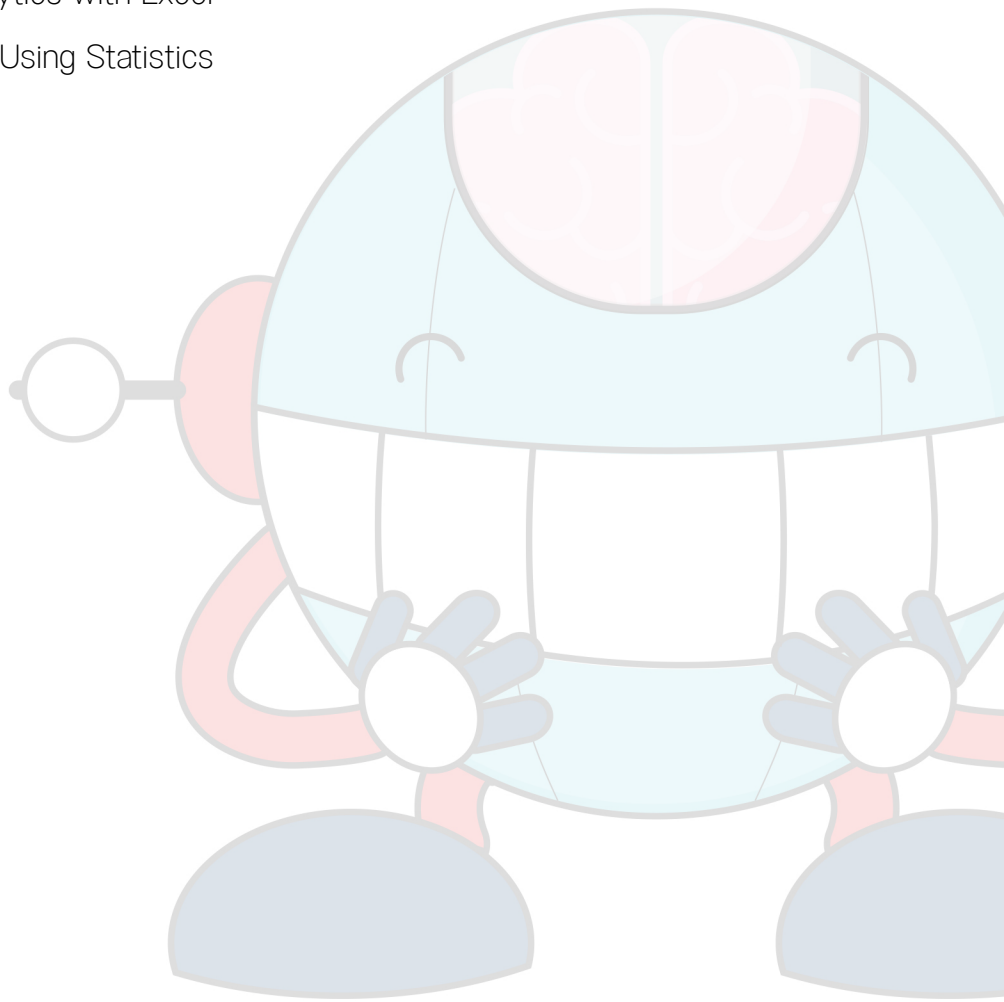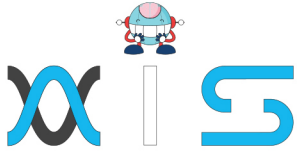
Tableau Training

This Tableau course helps you understand how to build visualizations, organize data, and design charts and dashboards to empower more meaningful business decisions. You'll be exposed to the concepts of Data Visualization, different combo charts, and stories, working with filters, parameters, and sets, and building interactive dashboards.

Key Learning Objectives

- Become an expert on visualization techniques such as heat map, treemap, waterfall, Pareto

- Understand metadata and its usage

- Work with Filter, Parameters, and Sets

- Master special field types and Tableau-generated fields and the process of creating and using parameters

- Learn how to build charts, interactive dashboards, story interfaces, and how to share your work

- Master the concepts of data blending, create data extracts and organize and format data

- Master arithmetic, logical, table, and LOD calculations
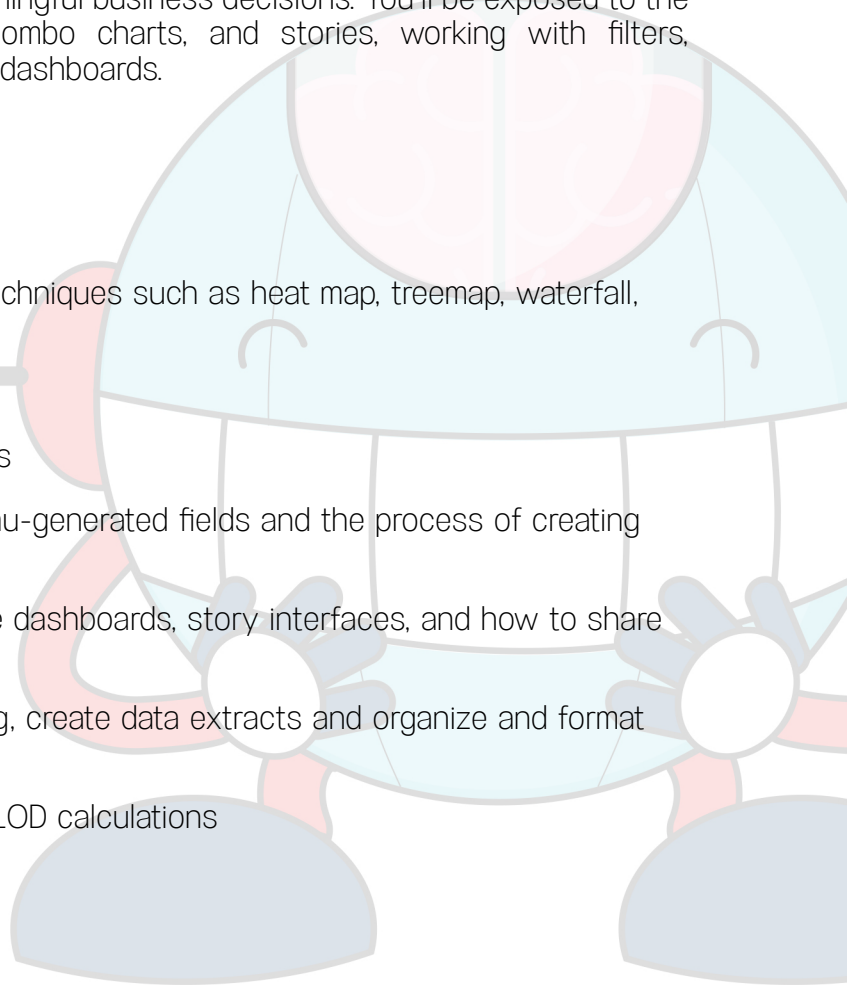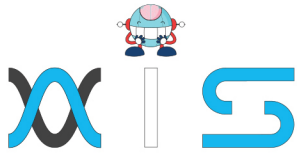
Couse Curriculum

- Lesson 01 - Getting Started with Tableau

- Lesson 02 - Core Tableau in Topics

- Lesson 03 - Creating Charts in Tableau
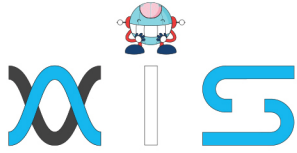
- Lesson 04 - Working with Metadata

- Lesson 05 - Filters in Tableau

- Lesson 06 - Applying Analytics to the worksheet

- Lesson 07 - Dashboard in Tableau

- Lesson 08 - Modifications to Data Connections

- Lesson 09 - Introduction to Level of Details in Tableau (LODS)
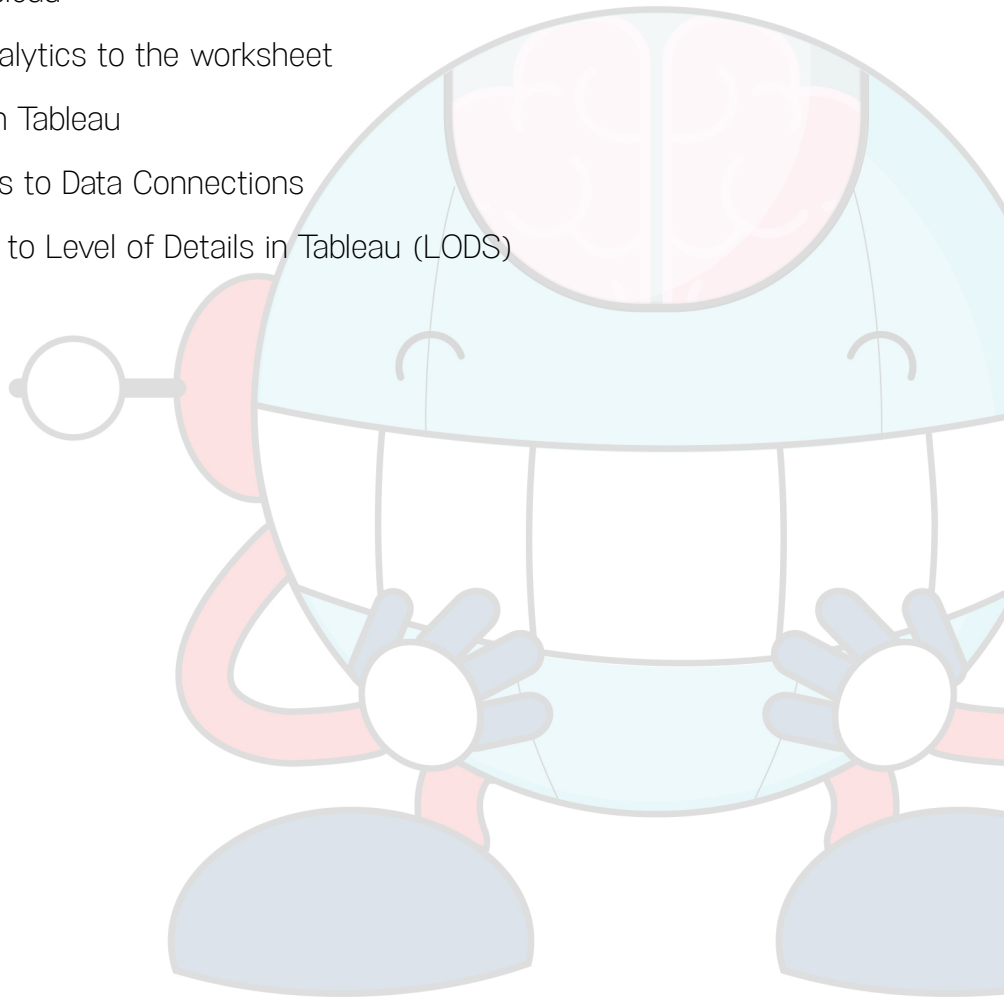
Programming Basics and Data Analytics with Python

Learn how to analyze data in Python using multi-dimensional arrays in NumPy, manipulate Data-Frames in Pandas, use the SciPy library of mathematical routines, and perform machine learning using scikit-learn. This course will take you from the basics of Python to the many different types of data. You will learn how to prepare data for analysis, perform simple statistical analyses, create meaningful data visualizations, predict future trends from data, and more.

Key Learning Objectives

- Import data sets

- Clean and prepare data for analysis

- Manipulate Pandas DataFrame

- Summarize data

- Build machine learning models using scikit-learn

- Build data pipelines
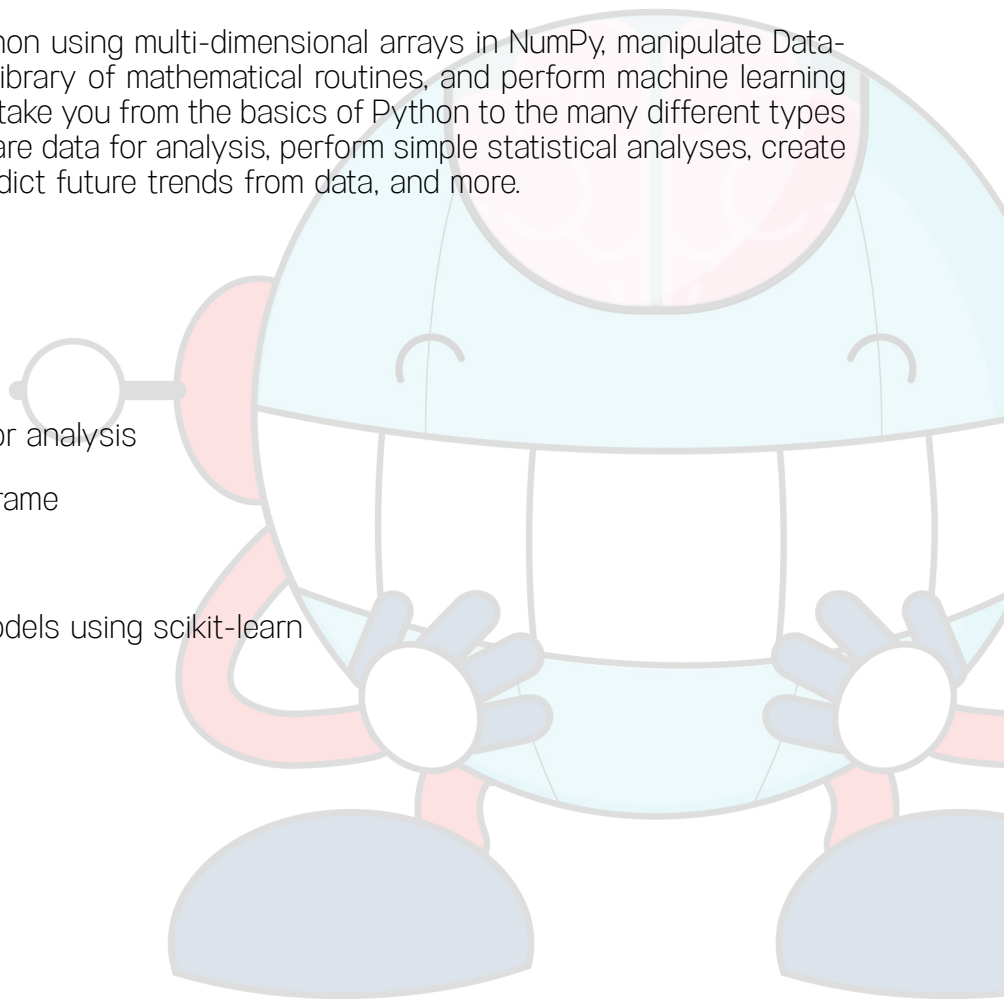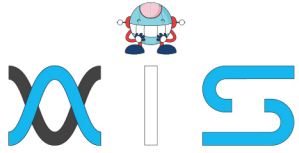
Couse Curriculum

- Lesson 1 Course Introduction

- Lesson 2 Python Environment Setup and Essentials

- Lesson 3 Python Programming Fundamentals

- Lesson 4 Data Analytics Overview

- Lesson 5 Statistical Computing

- Lesson 6 Mathematical Computing using NumPy

- Lesson 7 Data Manipulation with Pandas

- Lesson 8 Data visualization with Python

- Lesson 9 Intro to Model Building

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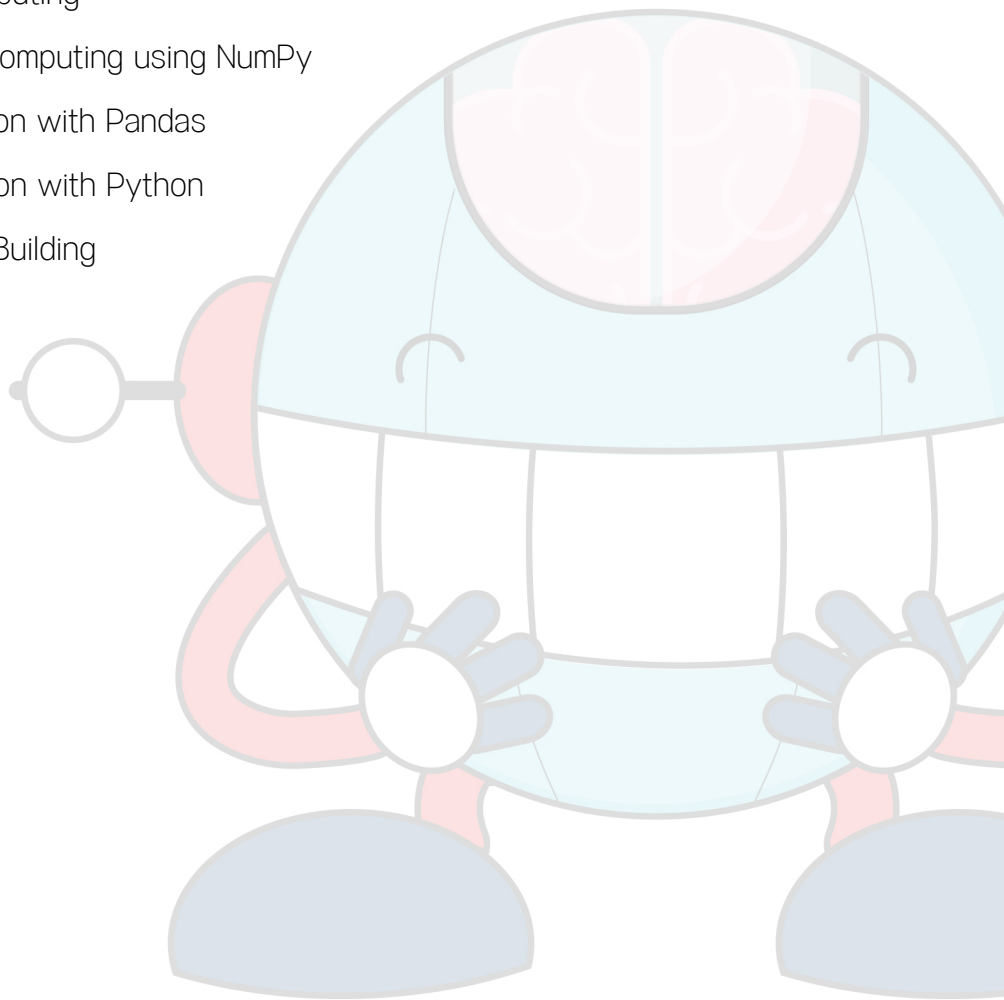
Data Science with R Programming

Gain insight into the R programming language with this introductory course. An essential programming language for data analysis, R programming is a fundamental key to becoming a sucessful data science professiona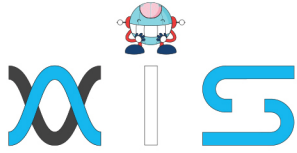l. In this course, you will learn how to write R code, learn about R's data structures, and create your own functions. After the completion of this course, you will be fully able to begin your first data analysis.

Key Learning Objectives

- Learn about math, variables, strings, vectors, factors, and vector operations

- Gain a fundamental knowledge of arrays and matrices, lists, and data frames

- Get an understanding of conditions and loops, functions in R, objects, classes, and debugging

- Learn how to accurately read text, CSV, and Excel files plus how to write and save data objects in R to a file

- Understand and learn how to work on strings and dates in R

Course curriculum

- Lesson 1 - R Basics

- Lesson 2 - Data Structures in R

- Lesson 3 - R Programming Fundamentals

- Lesson 4 - Working with Data in R

- Lesson 5 - Strings and Dates in R

STEP

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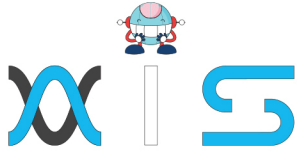
Data Analyst Capstone

This Data Analyst Capstone project will give you an opportunity to implement the skills you learned throughout this program. Through dedicated mentoring sessions, you'll learn how to solve a real-world, industry-aligned data science problem, from data processing and model building to reporting your business results and insights. This project is the final step in the learning path and will enable you to showcase your expertise in data analytics to future employers.

Elective Course

Power BI

Microsoft Power BI is a suite of tools used to analyze your data and extract business insights by building interactive dashboards.

This Power BI Training course will help you get the most out of Power BI, enabling you to solve business problems and improve operations. This Power BI Training course will help you master the development of dashboards from published reports, discover greater insight from your data with Quick Insights, and learn practical recipes for the various tasks that you can do with Microsoft Power BI—from gathering your data to analyzing it. This course also contains some handy recipes for troubleshooting various issues in Power BI.

SQL

This course gives you the information you need to successfully start working with SQL databases and make use of the database in your applications. Learn how to correctly structure your database, author efficient SQL statements and clauses, and manage your SQL database for scalable growth.
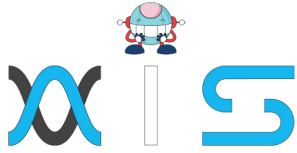
Data Science with Python (OSL)

This Data Science with Python course will establish your mastery of Data Science and analytics techniques using Python. With this Python for Data Science Course, you'll learn the essential concepts of Python programming and gain in-depth knowledge in data analytics, Machine Learning, data visualization, web scraping, and natural language processing. Python is required skill for many Data Science positions, so jump start your career with this interactive, hands-on course.

Statistics Essentials

Statistics is the science of assigning a probability to an event based on experiments. It is the application of quantitative principles to the collection, analysis, and presentation of numerical data. Ace the fundamentals of data science, statistics, and machine learning with this course. It will enable you to define statistics and essential terms related to it, explain measures of central tendency and dispersion, and comprehend skewness, correlation, regression, and distribution. Additionally, you will be able to make data-driven predictions through statistical inference.

R Programming for Data Science

Gain insight into the R programming language with this introductory course. An essential programming language for data analysis, R programming is a fundamental key to becoming a successful data science professional. In this course, you will learn how to write R code, learn about R's data structures, and create your own functions. After the completion of this course, you will be fully able to begin your first data analysis.

Programming Refresher

Programming is an increasingly important skill and this course will establish your proficiency in handling basic programming concepts. This course will cover the basics of Java, Python, and C++. By the end of this program, you will gain context into object oriented programming and understand the basic programming concepts like data types, variables, strings, loops, and functions and also software engineering concepts like multithreading and multitasking
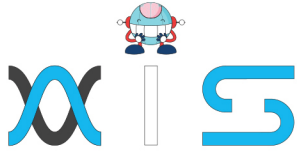
Classroom-Level Immersion:
Delivered Digitally

Anywhere Anytime Access

Online Self-Learning

Live, Interactive Classes

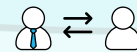Online Enrollment and Access on Web and Mobile

Chapter-end quizzes

Chapter-end quizzes

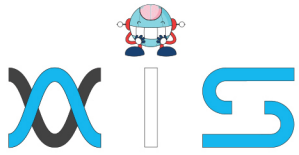Live virtual classroom

Live interaction and mentoring

Final Assessment

Project Work

Virtual Tabs

85%

Course
Completion

+

80%

Score on
Simulation Exam

+

Final Exam & Certification

Internal, and
External
Certification
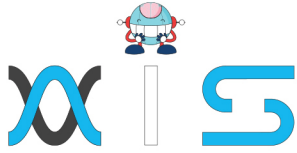
PeopleCert
All talents, certified.

PMI Project
Management
Institute.

Scrum
Alliance

EXIN

Microsoft

AXELOS
GLOBAL BEST PRACTICE

THE Open GROUP

Corporate Training

Top clients we work with:

VISA	salesforce	P&G	amazon	Schneider Electric	Duke UNIVERSITY
mastercard	Microsoft	pepsi	DELL	Capgemini	TATA CONSULTANCY SERVICES
HSBC	CISCO	Mondelēz International	vmware	accenture	THE WORLD BANK
BARCLAYS	IBM	Mercedes-Benz	GE	BOEING	orange
UBS	hp	Ford	pwc	Pfizer	WPP
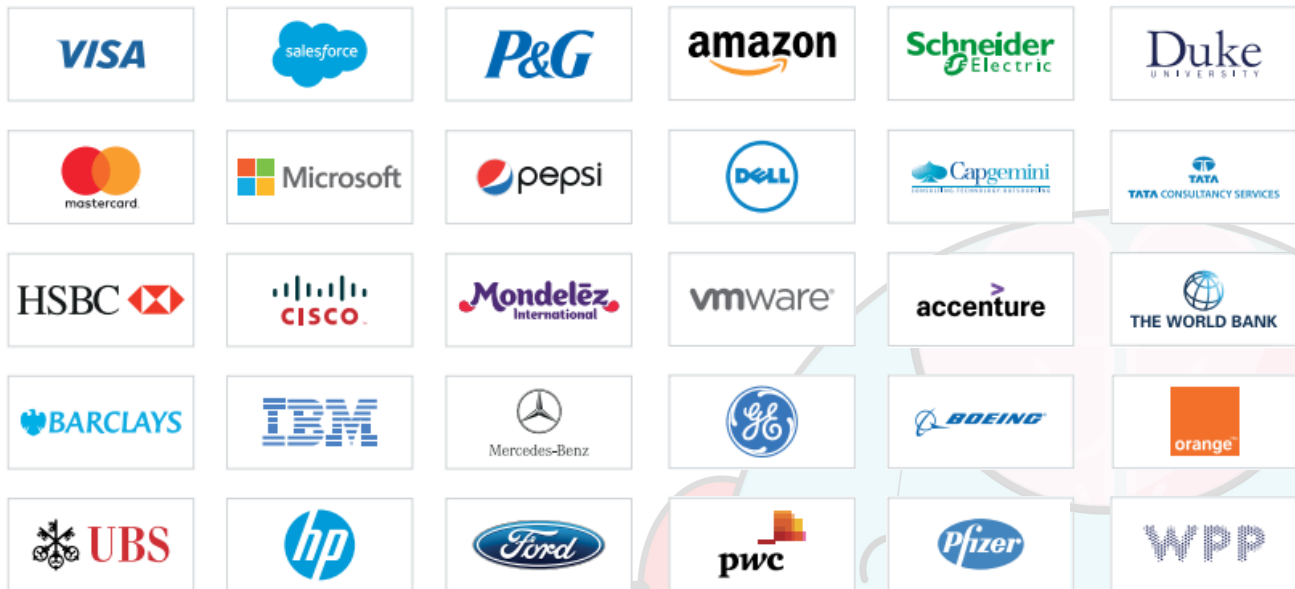
Features of Corporate Training:

- Tailored learning solutions
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- Enterprise-grade learning management system (LMS)
- Enterprise dashboards for individuals and teams
- 24 x 7 learner assistance and support
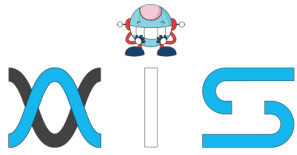
AIS

With the rising demand in scalable technology, AIS provides tailored goal-setting based on your organization's needs and expectations. With products geared towards the growing needs of your organization's customers and employees, AIS has innovative and value-driven solutions.

Learning Partners

SAS Management, Inc.

Premiere training and consulting services company, SAS Management, Inc. has been in the industry for a decade. SAS Management, inc. focuses on creating value in every learning and consulting experience by providing the best possible output – whether in a virtual classroom setup, e-learning, or face-to-face. SAS Management, Inc. is the leading training and certification provider for ITIL, Project Management Professional, ISO certifications, PRINCE2, SDI Service Desk Analyst and Manager, Agile, and a host of many programs and courses.

Simplilearn

Tagged as the "World's #1 Online Bootcamp", Simplilearn provides online education and in-house training for professional certification courses. Founded in 2010, Simplilearn offers more than 100 programs, helping professionals reach their learning potentials needed to work in the digital economy.
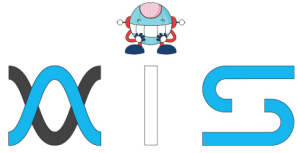
Technology Partner

Freshworks

With over 40,000 customers, Freshworks is a business solutions software provider with products ranging from IT helpdesk and service desk, customer relationship management, live chat, marketing automation, phone system, and HR.

Partners & Affiliates

The program presented, as well as a wide range of programs are products of the partnership of AIS, SAS Management, Inc., and Simplilearn. With a common goal of providing the best practice of facilitating learning with an array of choices available in the online platform in this time of digitization.

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