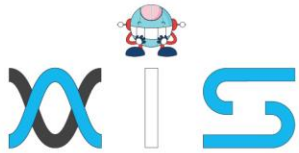# DATA VISUALIZATION EXPERT

Course Outline

About the Program:

This Data Visualization Master's program will equip you with the skills needed to combine data, visuals, and narrative to tell impactful stories and make data-driven decisions. With powerful visualization tools such as Power BI and tableau, and industry-aligned projects, this Data Visualization program will help you become a job-ready Data Visualization expert.

This Master's program will help you gain knowledge on the basics of statistics and equip you with project-oriented PowerBI and Tableau training. The program will enable you to create visualizations from large quantities of data and tell data-driven stories for effective business decision
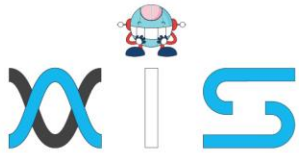
Program Outcomes

At the end of this data visualization expert master's program, you will:

- Become an expert on visualization techniques
- Understand metadata and its usage
- Master special field types and Tableau-generated fields
- Build charts, interactive dashboards, and story interfaces
- Master the concepts of data blending
- Create visualizations for actionable insights
- Create calculated columns and measure using the DAX language
- Earn an industry recognized course completion certificate

Program Eligibility Criteria and Prerequisites

There is no eligibility criteria for this data visualization course. We recommend you come with an open mind.

Who Should Enroll in this Program?

This data visualization expert Master's Program is right for:

- Freshers who are inclined towards a data-oriented roles
- BI consultants, BA analysts, data analysts, and data scientists who want to gain an essential skill set that contributes to making day to day business decisions

Learning Path

- Step 1: Statistics Essentials for Data Science
- Step 2: Power BI
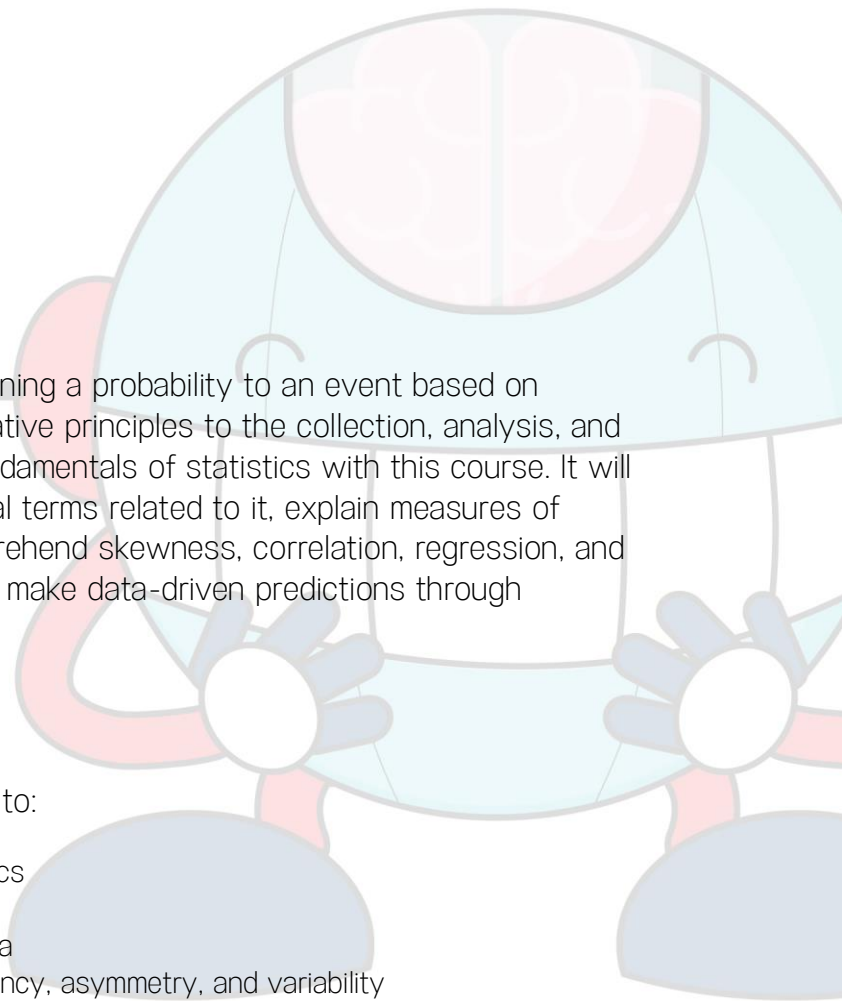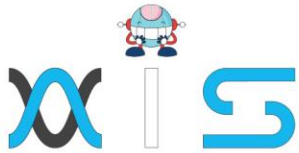- Step 3: Tableau

STEP 1

Statistics Essentials

Statistics Essentials 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 statistics 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.

Key Learning Objectives

By the end of this training, you will be able to:

- Understand the fundamentals of statistics
- Work with different types of data's
- Learn how to plot different types of data
- Calculate the measures of central tendency, asymmetry, and variability
- Calculate correlation and covariance
- Distinguish and work with different types of distribution

- Estimate confidence intervals
- Perform hypothesis testing
- Make data-driven decisions
- Understand the mechanics of regression analysis and carry out regression analysis
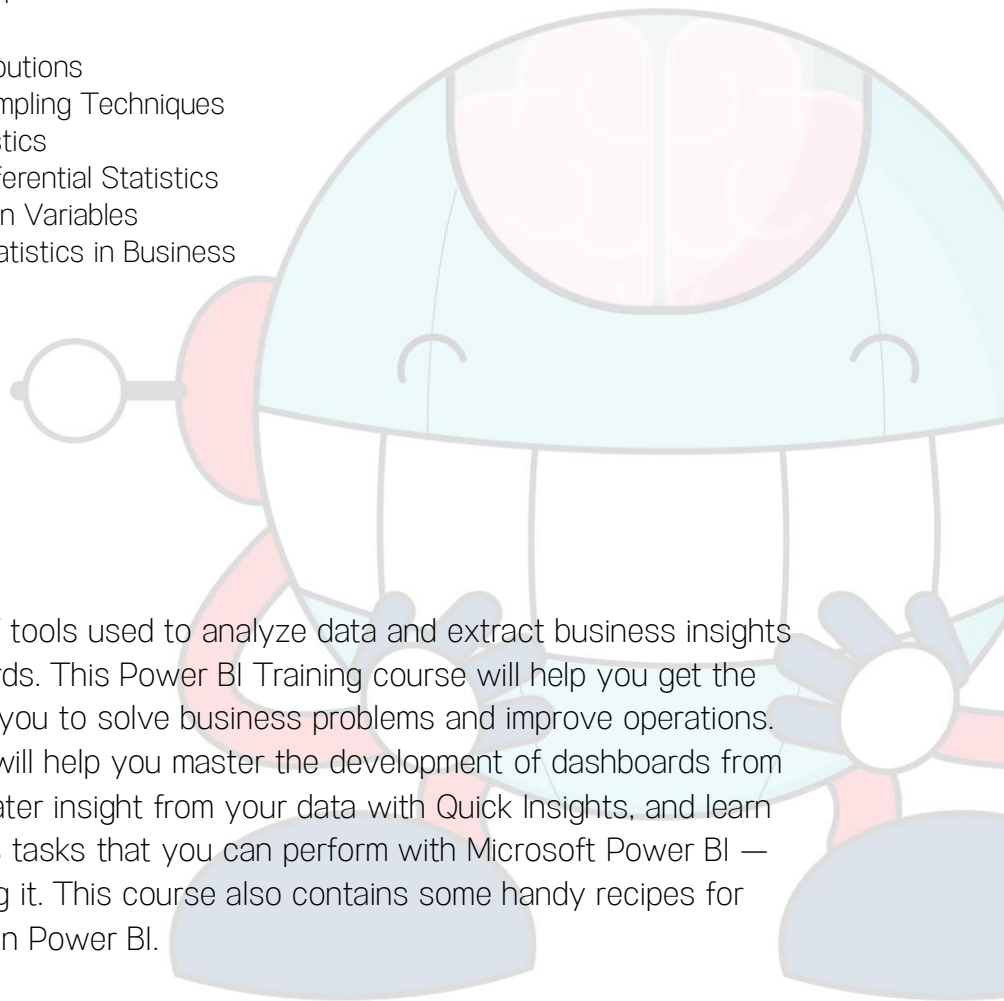- Understand and use dummy variables
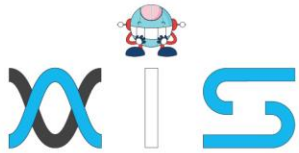
Course Curriculum

- Lesson 1-Introduction to Statistics
- Lesson 2-Understanding the Data
- Lesson 3-Descriptive Statistics
- Lesson 4-Data Visualization
- Lesson 5-Probability
- Lesson 6-Probability Distributions
- Lesson 7-Sampling and Sampling Techniques
- Lesson 8 -Inferential Statistics
- Lesson 9-Application of Inferential Statistics
- Lesson 10-Relation between Variables
- Lesson 11-Application of Statistics in Business

STEP 2

Power BI

Microsoft Power BI is a suite of tools used to analyze 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 perform with Microsoft Power BI — from gathering data to analyzing it. This course also contains some handy recipes for troubleshooting various issues in Power BI.
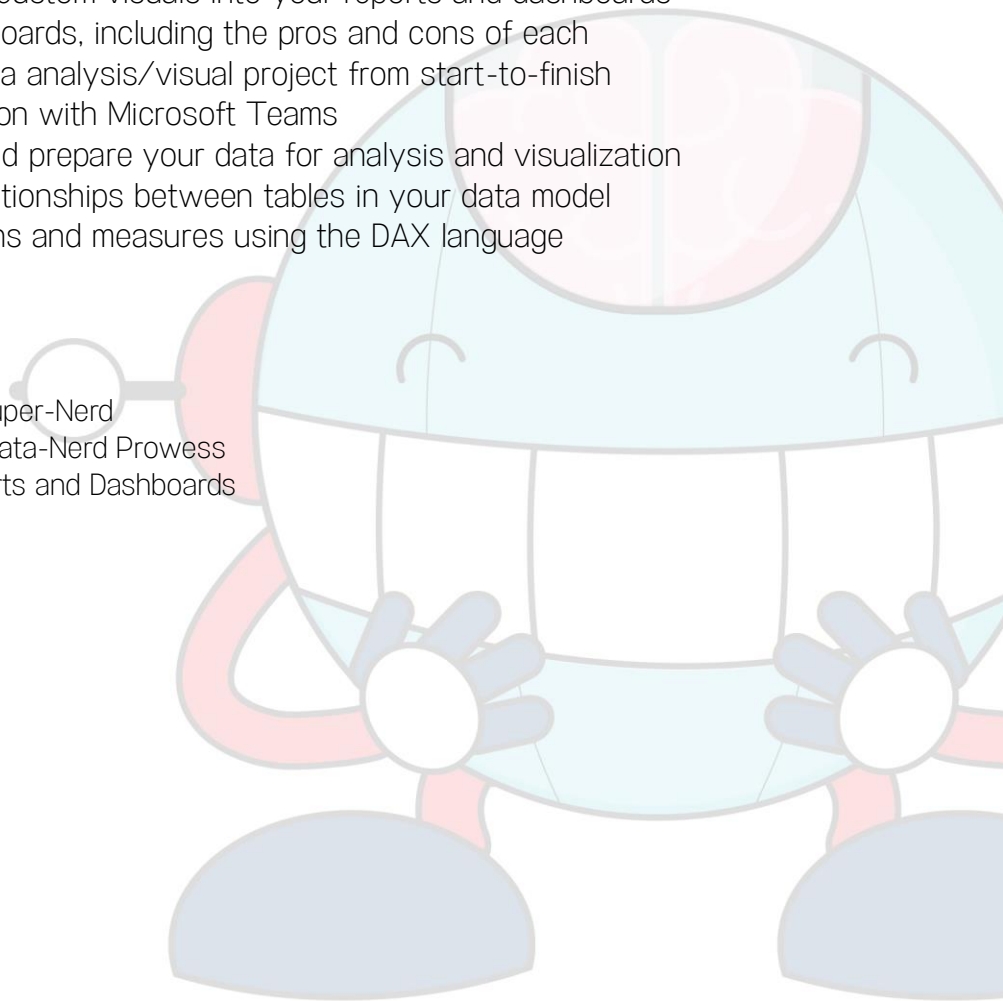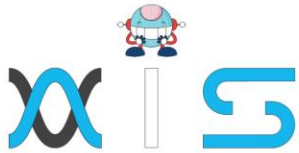
Key Learning Objectives

- Create dashboards from published reports
- Quickly generate visuals and dashboards with Quick Insights
- Use natural language in the Q&A feature to generate visuals for actionable insight
- Create and manage data alerts
- Get a report layout and data visualization best practices
- Understand which charts/graphs to use depending on the question being answered
- or the story being told
- Use shapes to design, emphasize, and tell a story
- See how to incorporate custom visuals into your reports and dashboards
- Share reports and dashboards, including the pros and cons of each
- Complete a Power BI data analysis/visual project from start-to-finish
- Improve team collaboration with Microsoft Teams
- Know how to retrieve and prepare your data for analysis and visualization
- Learn how to create relationships between tables in your data model
- Create calculated columns and measures using the DAX language

Course curriculum

- Get and Prep Data like a Super-Nerd
- Lesson 2 - Develop Your Data-Nerd Prowess
- Lesson 3 - Generate Reports and Dashboards
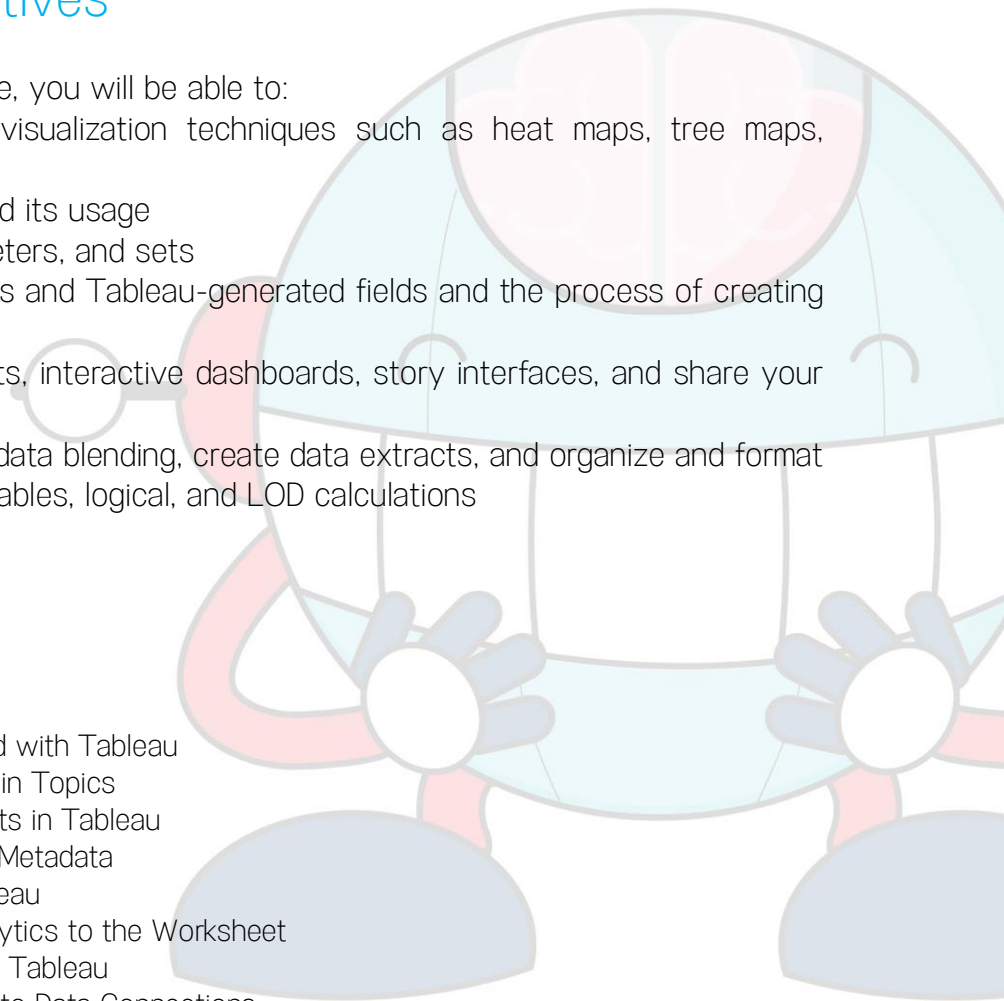- Lesson 4 - Tips & Tricks

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.
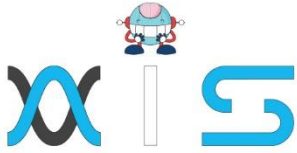
Key Learning Objectives

- By the end of this course, you will be able to:
- Become an expert on visualization techniques such as heat maps, tree maps, waterfall, and Pareto
- Understand metadata and its usage
- Work with filters, 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 share your work
- Master the concepts of data blending, create data extracts, and organize and format data Master arithmetic, tables, logical, and LOD calculations

Course 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 - Dashboards in Tableau
- Lesson 08 - Modifications to Data Connections
- Lesson 09 - Introduction to Level of Details in Tableau (LODS)

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.

SAS Management, Inc. has been a leader in the training, certification and consulting services industry in the Philippines. With offices in Makati, Ortigas and Cebu, Philippines, the company has been the top training and consulting company for over 9 years. In its years of existence, it has provided certificates to over 100,000 professionals including 10,000 participants in the 160+ courses that have been conducted just during the 2020-2021 pandemic alone. The most sought-after courses being offered are ITIL, Project Management Professional (PMP)®, COBIT 5, Six Sigma Yellow Belt, Six Sigma Green Belt, PRINCE2, and organizational skills, among others.

Simplilearn

Simplilearn, based in California and India, is the world's #1 online bootcamp and one of the world's the leading certification and training providers. Simplilearn trained over 2,000,000 professionals with 2,000+ trainers and provides over 400 different courses.
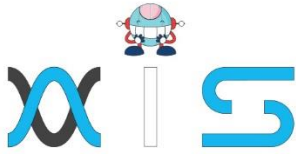
Technology Partner

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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