

REPORT -1

GOOGLE DATA ANALYTICS

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INTRODUCTION:

This report summarizes the key concepts and skills I have acquired during the data analytics course. We will be getting a thorough grasp of the procedures and methods that a junior or associate data analyst uses on a daily basis.

Acquire essential analytical abilities (cleaning, analyzing, and visualizing data) and tools (tableau, SQL, R programming, and spreadsheets).

Comprehend the process of organizing and cleansing data for analysis. Utilize spreadsheets, SQL, and R programming to accomplish analysis and computations. Learn how to use dashboards, presentations, and other widely used visualization platforms to visually represent and communicate data insights.

OBJECTIVES I HAVE LEARNED:

COURSE 1:

FOUNDATIONS:DATA,DATA EVERYWHERE:

In this course 1 we will List and describe the essential terms used in data analytics, such as data, data analysis, and data ecosystems.

Make a self-assessment in analytical thinking and provide concrete instances of how to use it.

Talk about the functions of query languages, spreadsheets, and data visualization software in data analytics.

Give a detailed job-specific description of the duties of a data analyst.

COURSE 2 :

ASK QUESTIONS TO MAKE DATA - DRIVEN DECISIONS:

In this course 2 we will describe the applicability of the problem-solving road map to common analysis settings ,talk about how data is used to make decisions and Shows how to enter and organize data, among other fundamental data analyst activities, using spreadsheets lastly describes the main concepts of organized thought.

COURSE 3:

PREPARE DATA FOR EXPLORATION:

In this data exploration part we will describe the elements that should be taken into account while choosing how to collect data.

And Learned about the distinctions between unbiased and biased data.

Given an overview of databases, including a list of its parts and purposes.

Describes the best methods for data organization.

COURSE 4:

PROCESS DATA FROM DIRTY TO CLEAN:

In this course we describe the various forms of data integrity and the threats they face. Learns how utilize fundamental SQL operations to tidy up string variables within a database and we can create rudimentary SQL queries to utilize with databases.

Lastly describes the procedure used to confirm the outcomes of data cleansing.

COURSE 5:

ANALYZE DATA TO ANSWER QUESTIONS:

In this we gonna discuss about the significance of employing sorts and filters to arrange your data before analysis.

We transform and arrange information.

Utilize syntax and functions to write SQL queries that aggregate information from several database tables.

Lastly, we explain how to utilize functions in spreadsheets to perform simple calculations on data.

COURSE 6:

SHARE DATA THROUGH ART VISUALIZATION:

This course Explains how data and the outcomes of data analysis are discussed via data visualizations, Recognize Tableau as a tool for data visualization and learn about its applications, it Describe data-driven tales, emphasizing their significance and characteristics and Describe the ideas and procedures behind powerful presentations.

COURSE 7:

DATA ANALYSIS WITH R PROGRAMMING:

We will be getting an overview of the R programming language and its environment, gives the basic ideas behind R programming, such as variables, functions, data types, pipelines, and vectors. Explains the R visualization generation choices and Shows that you know how to use R Markdown's basic formatting to highlight text and give it structure.

CONCLUSION:

Throughout this course, I have gained a comprehensive understanding of the fundamental concepts and tools used in data analytics. I have developed my analytical thinking skills and learned how to apply various techniques and software to analyze data and provide valuable insights. These skills will be instrumental in my future career as a data scientist, particularly in the retail industry, where data-driven decisions are crucial for improving product offerings and marketing strategies.

WORK TO BE DONE:

I am now currently working on the cyclists dataset depicting the insights that learnt in course .In the next report I will be reporting the case study of the project that I have done ,performing the analyzing and visualizing techniques by cleaning the data and show the outputs that I have got.