

# DATA SCIENCE USING PYTHON Week 2



# LEARNING OBJECTIVE OF THIS MODULE

- Basic Working proficiency in Python
- Basic Data-Manipulation using Python
- Basic Data-Visualization using Python

# LET'S SET SOME GROUND RULES

- Come prepared for these sessions by watching the videos.
  - Concepts will be covered in the videos.
  - Hands-On Application will be covered in Mentor Sessions.
- Submit all assignments on time.
- Let's be punctual & respect each other's time.





# DSBA CURRICULUM DESIGN

## FOUNDATIONS

Python for Data  
Science(2/4)

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Statistical Methods  
for Decision Making

## CORE COURSES

Advanced Statistics

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Data Mining

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Predictive Modelling

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Machine Learning

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Time Series  
Forecasting

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Data Visualization

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SQL

## DOMAIN APPLICATIONS

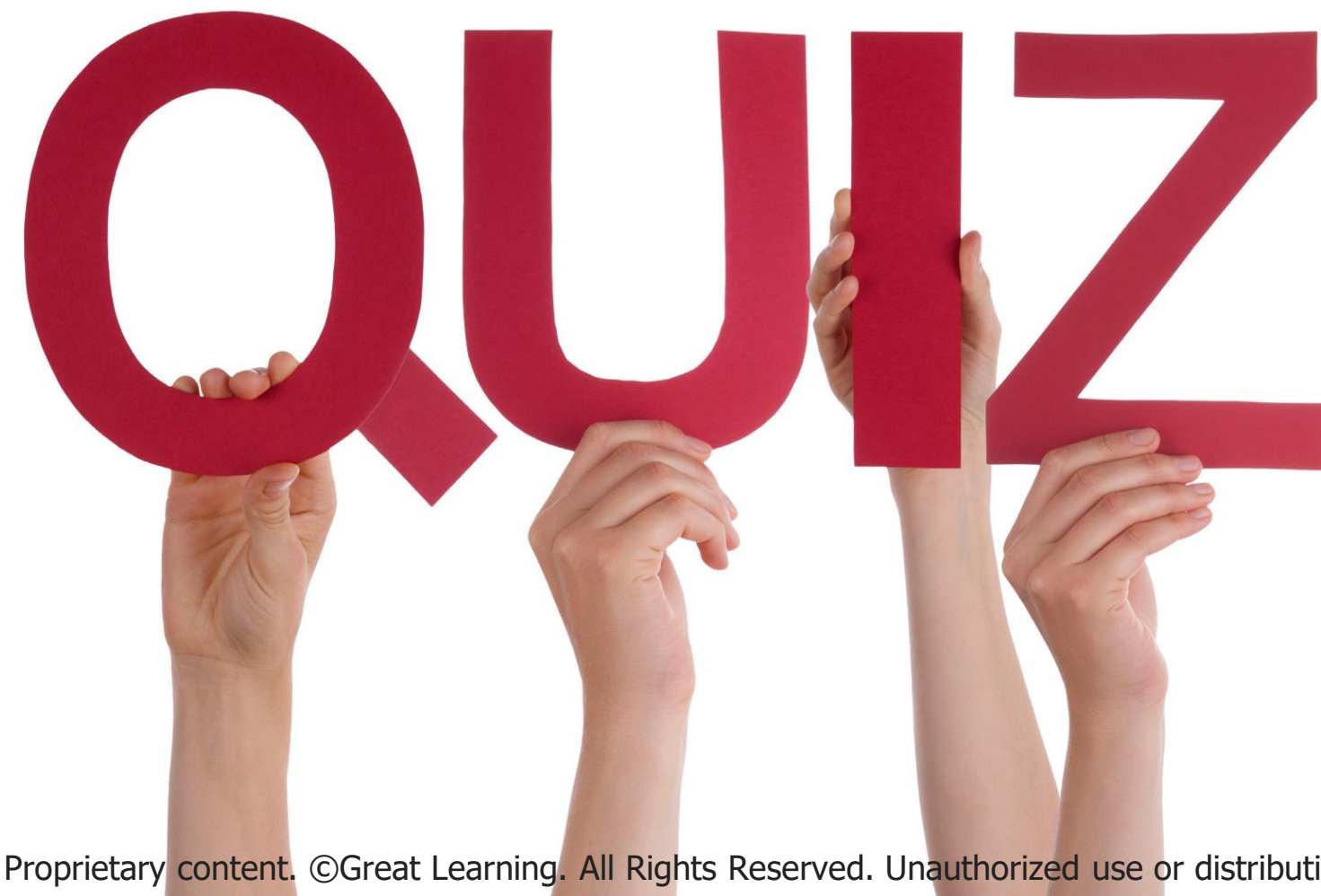
Financial Risk  
Analytics

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Marketing Retail  
Analytics

## POP QUIZ

- What are some of the common Data Types in Python ?
- Can you name some important Python Libraries ?
- Which is the command in Python to check the list of variables and its data types etc?



## **CASE STUDY - Food Nutrition**

Different food nutrients are extremely important for growth and nourishment of our well-being. Keeping a track of all nutrients on our plate and managing it wisely is an essential step in order to maintain our peak fitness. It is vital to consume a healthy mix of vital nutrients by balancing our diet with different foods. In order to better understand the nutritional value of what we eat, a detailed chart of various nutrient composition of different food items has been created. We need to analyse this data to help make more informed eating decisions.



## INDUSTRY EXAMPLE-Various Real Time Applications of Pandas



**Reference-**<https://data-flair.training/blogs/applications-of-pandas/>



**ANY QUESTIONS**





**HAPPY LEARNING**