



# Introduction to Data Science

School of E-Commerce

Lecturer: KANN Bonpagna

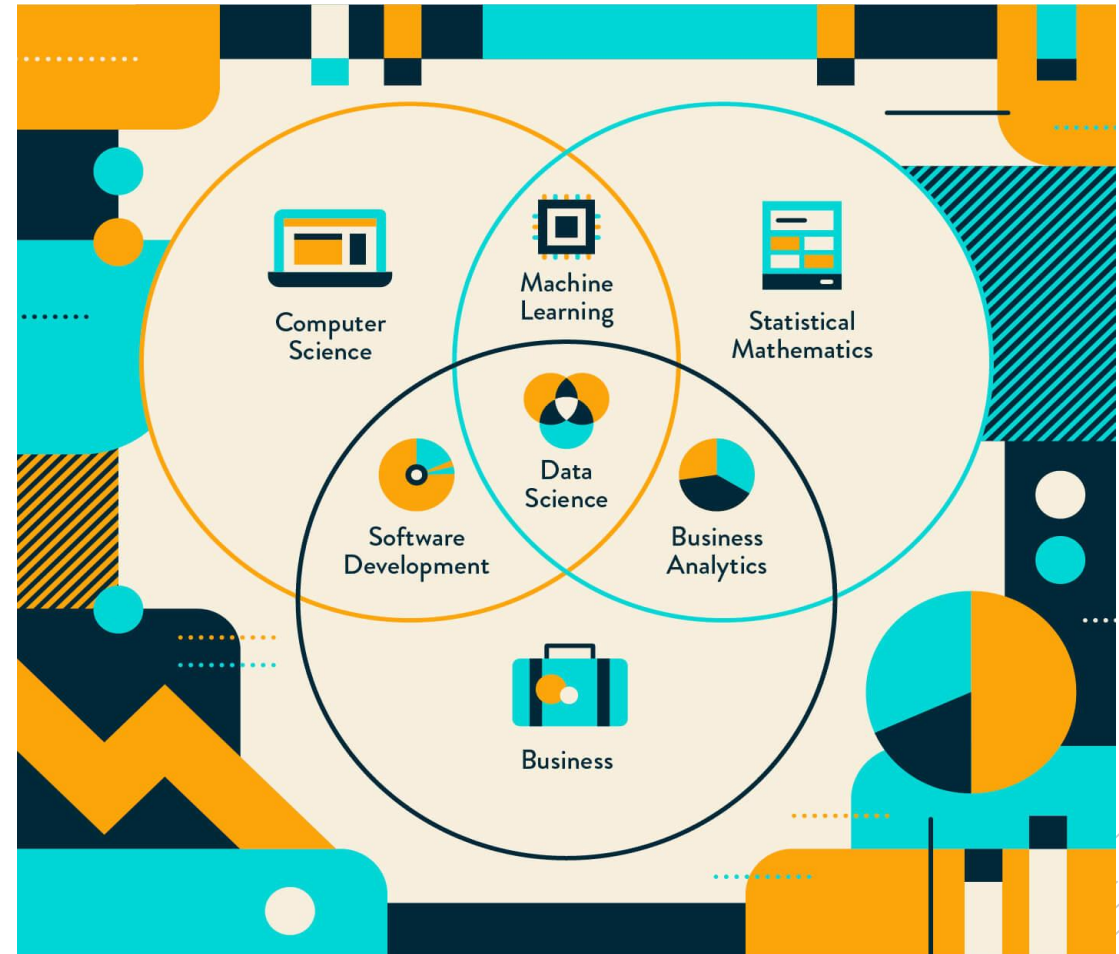
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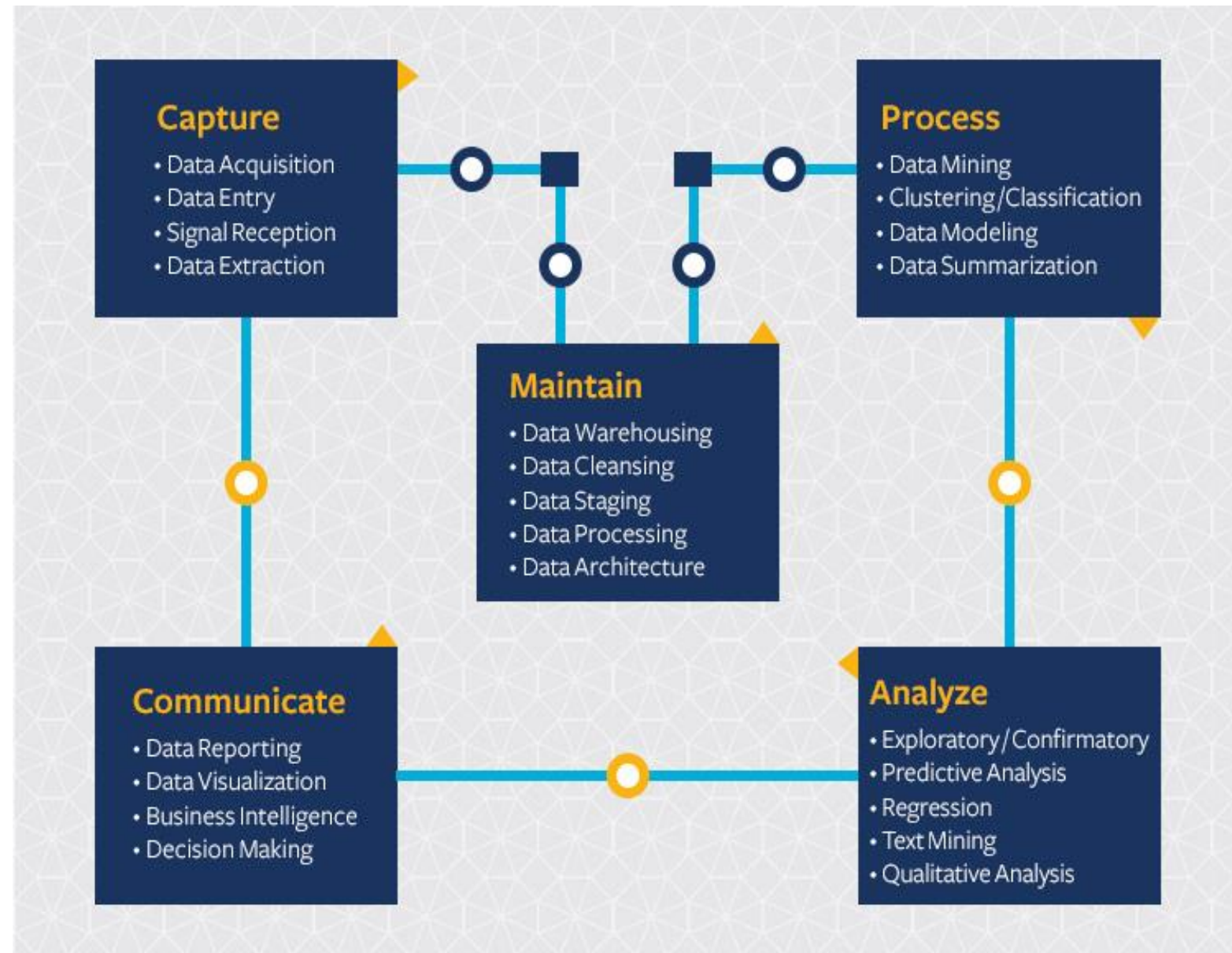
# Introduction

## What is Data Science?

Data science is an interdisciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from data in various forms, both structured and unstructured.

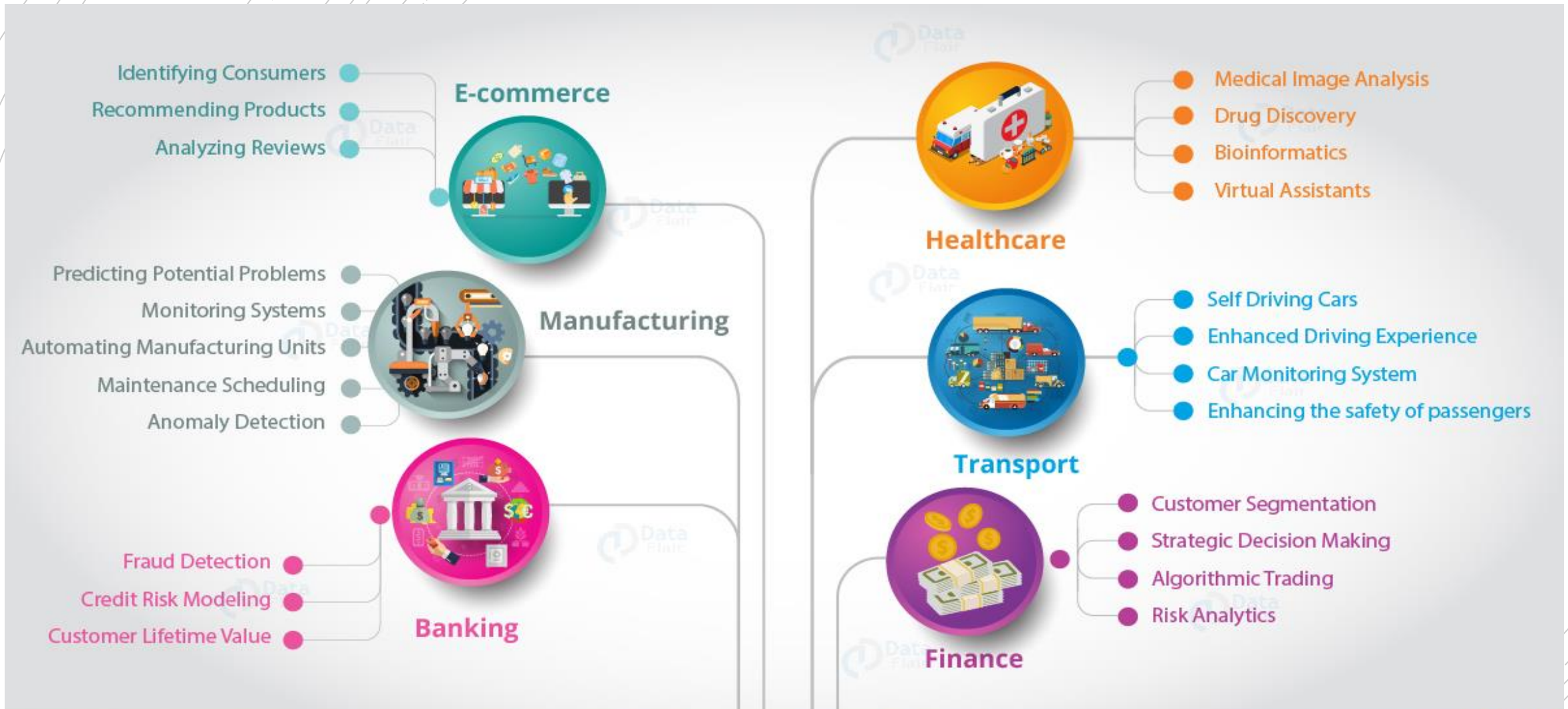


# Introduction (Cont.)





# Data Science Applications



Data Science Applications

# Lecturer's Background

- 2019 – Present : Lecturer and Researcher at



National Institute of Posts, Telecoms and ICT

- 2018 – 2019 : Master Student in Informatics – Data



Science, Grenoble INP & Université Grenoble Alpes

- 2013 – 2018 : Bachelor of Engineering in Information and Communication (GIC-Gen. 17), ITC



- 2013 – 2017 : Bachelor of Education in English, Institute of Foreign Languages, RUPP



- 2013 : High school diploma

# Course Objectives

- Explore the different concepts of Data Science and its applications in various fields.
- Identify various tasks and skills of data science.
- Demonstrate the knowledge regarding the basics of Python programming environment.
- Discuss the abstraction of the use of statistics and machine learning in data processing and data analysis.
- Apply data manipulation and cleaning techniques using the popular Python Pandas data science library.
- Conduct the group work in the peer-to-peer and blended learning environment.
- Express their ideas, implementation and the presentation skills of their work through the project.

## Course Organization

- Individual/Group online learning and practices with support from lecturer in class (Online courses are taken from edX website).
- Guest Lecture invited by lecturer to share experience related to new technology.
- Data Team Project delivered by students reflecting to what they have learnt in class.



# Course Assessment

<b>Class Activity Involvement</b>	<b>15%</b>
<b>Lab Assignment</b>	<b>15%</b>
<b>Project</b>	<b>30%</b>
<b>Final exam</b>	<b>30%</b>

## Suggestions for Success

- Come and enjoy learning in class.
- Ask questions if you are not clear with any points.
- Complete the quizzes regularly.
- Take notes during the lecture sessions.
- Try answering questions or solve problems.
- Enjoy learning and have fun.

***“Never be afraid to make mistakes!”***

# Introduction to Data Science

(<https://courses.edx.org/courses/course-v1:Microsoft+DAT101x+3T2019/course/>)

Welcome to the  
course!

*(Not curse, of course)*

- If you do not have edX account, you shall create one in order to work on class materials.
- Answer the questions and write the answers on the google doc file.
- Write the questions you have in mind in the Q&A file doc in drive.

Welcome to the  
course!

*(Not curse, of course)*

- Watch three videos from the links in drive.
- Make a 15-minute presentation on the reflection of the videos you have watched.
- Write the questions you have in mind in the Q&A file doc in drive.