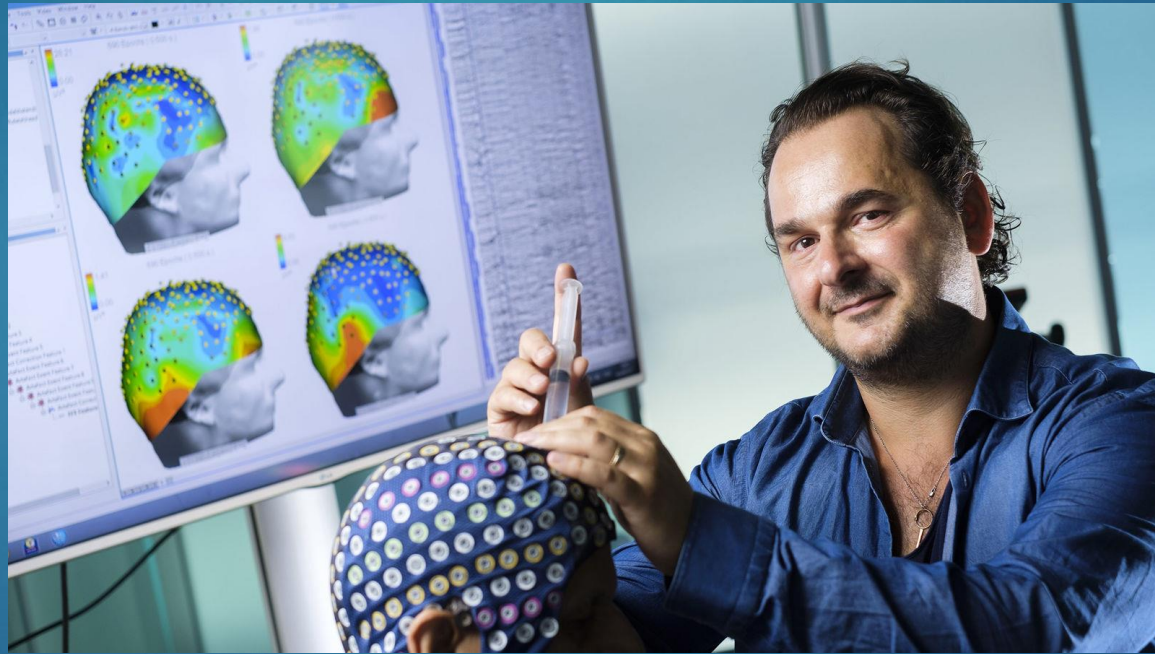


*In the name of God*

# Research Methods

S.Ali.Zendehbad



# Goals of Scientific Research

- ▶ **Select a Research Topic**
- ▶ **Problem statement**
- ▶ **Data collection, Search Results and History of research**
- ▶ **Description**
- ▶ **Prediction**
- ▶ **Data mining**
- ▶ **Explanation, Understanding and conclusions**
- ▶ **Reference management**
- ▶ **How to choose journals for submitting your papers**
- ▶ **Write a Research Paper**

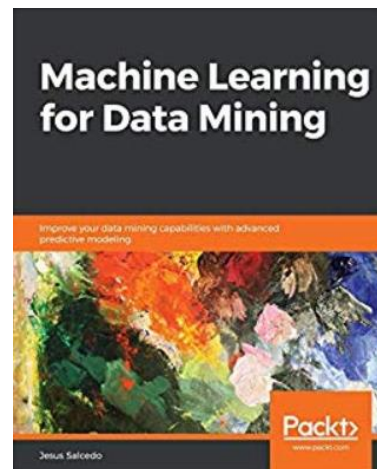
# Important Notices

- ▶ **Respect**
- ▶ **Discipline**
- ▶ **Attend classes regularly**
- ▶ **Feedback(Ask your question)**
- ▶ **Score = Fanatic**

**FANATIC**

# References

- **Research Methods** 2nd Edition Information, Systems, and Contexts  
**Editors:** Kirsty Williamson Graeme Johanson
- **Research Methods: From Theory to Practice** -18 edition  
**Editors:** Ben Gorvine  
**Publisher:** Oxford University Press
- **Machine Learning for Data Mining**  
**Editors:** [Jesus Salcedo](#)



# Students Evaluation

- |   |            |
|---|------------|
| ➤ Final exam                            | 10 points  |
| ➤ Seminar(Presentation & Weekly report) | 3.5 points |
| ➤ Homework                              | 1.5 points |
| ➤ Classroom activity                    | 3.5 points |
| ➤ Attending Class                       | 1.5 points |

NOTE 1: Delivery time is important.

NOTE 2: It is absolutely vital that you attend class regularly. Missing a class should be a rare occurrence; something that happens at most once or twice a semester.

# How do you give a classroom presentation?



# What is brainstorming and why is it important?

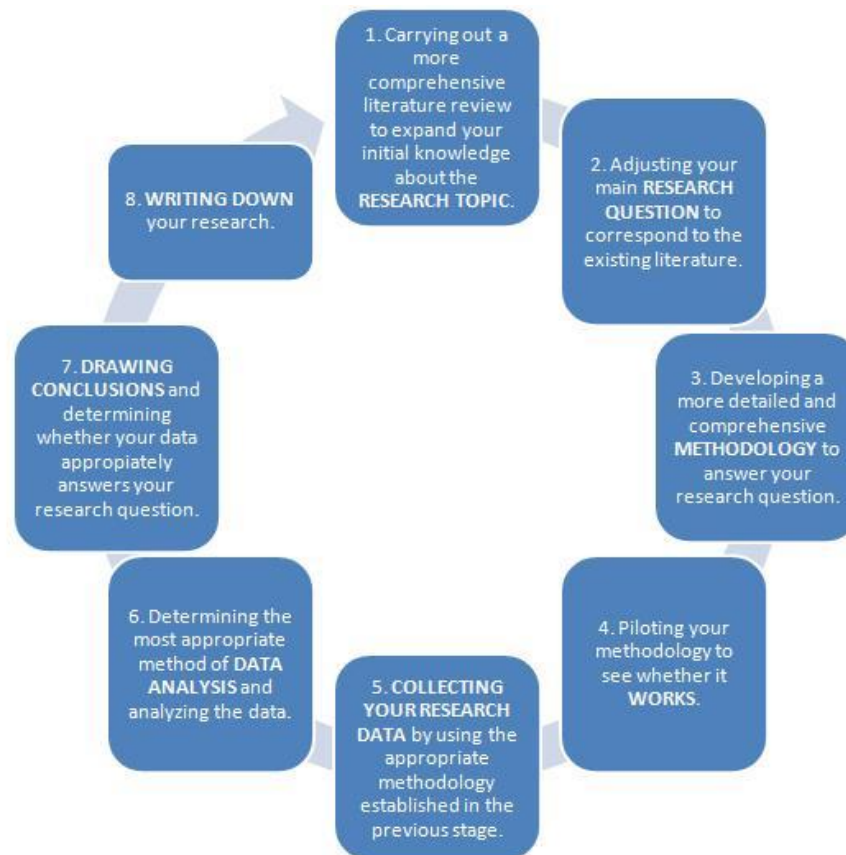


# How to choose a good research topic?

- Vision
- brainstorm for ideas.
- **choose** a **topic** that will enable you to read and understand the literature.
- ensure that the **topic** is manageable and that material is available.
- make a list of key words.
- be flexible.
- define your **topic** as a focused **research** question.
- **research** and read more about your **topic**.



# Factors to consider when choosing a research topic



# First Quiz

1. Could you please answer the questions below?

- A. What Are Your Short and Long Term Goals?
- B. What is the Research?



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