

# Mathematics and Big Data

## Text Mining &NLP Course Overview and Evaluation

Sundus Zafar

Department of Mathematics  
Autonomous University of Barcelona

- 1 Course Overview
  - Scope of the course
  - Course evalutaion

This course is divided in to following two sections:

- Text Mining
- Natutal Language Processing

# Scope of the course

## Text Mining

First section is dedicated to following topics of text mining with Python programming language:

- Data Collection and Preprocessing
- Information Extraction
- Text classification
- Document representation
- Document similarity
- Document classification algorithms

# Scope of the course

## Natural Language Processing

In second section of this course following topics of natural language processing will be covered with Python:

- Parts of Speech
- Named Entity Recognition
- Lemmatization
- Stemming
- Tokenization
- Topic Modelling

# Course evalutaion

This course will be evaluated in the following way:

- Weekly submission of five mini projects given in the end of each practice sessions.
- Each of the above submission projects and presentations counts 20 % of the final points weightage.