COURSE NAVIGATION

- Classification
- ☐ Home Work
 - 1. Data Acquisition Web Crawler/Scraper
 - 2. Text Mining
 - **3. Social Network Analysis**

 - **5.** Indexing + Document

Retrieval

- □ Lectures
- ☐ Seminar projects (optional)
- □ Tutorials

3. Social Network Analysis

Task

- Use an existing Movie dataset
 - Focus on "casts" data that provide information about actors in movies
 - You can also use already converted data to <u>csv</u> from https://github.com/cernoch/movies
- Convert "casts" data to a graph
 - Create a node for each actor
 - o Create an edge if two actors appeared in the same movie
- Perform Social Network Analysis
 - o Compute general statistics
 - o Identify key players using centrality measures
 - o Identify clusters/communities in graph
 - o Compute "Kevin Bacon" number for each actor with selected key player
 - $\circ\;$ Visualise important aspects of the analysis
 - o Compute graph embeddings and report results