



Maastricht University

# DARS

**Data Analysts for your Recommender System**



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# Content

- 1. The Project & what we're doing**
- 2. The Recommender System**
- 3. Prototype**
- 4. Contact details**



# 1. The Project & What we're doing



# The Project

- Started in September 2018
- Recommender System for *Students* of
  - University College Maastricht (Liberal Arts and Sciences program)
- Supporting Team:
  - Department of Knowledge Engineering,  
Maastricht University
  - Institute for Data Science, Maastricht  
University

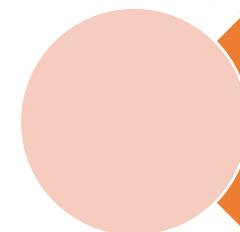


# GOAL

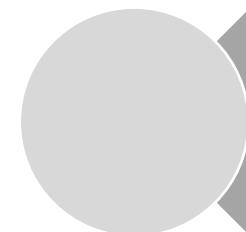
- Help students make well-informed decisions with regard to course selection
- Improve the self-advising process
- To **improve the information** position of students with regard to their **academic** and **professional** interest, by **complementing** the work of **academic advising** and examination committee.



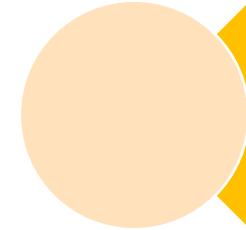
# Stakeholders



Students



Academic Advisors



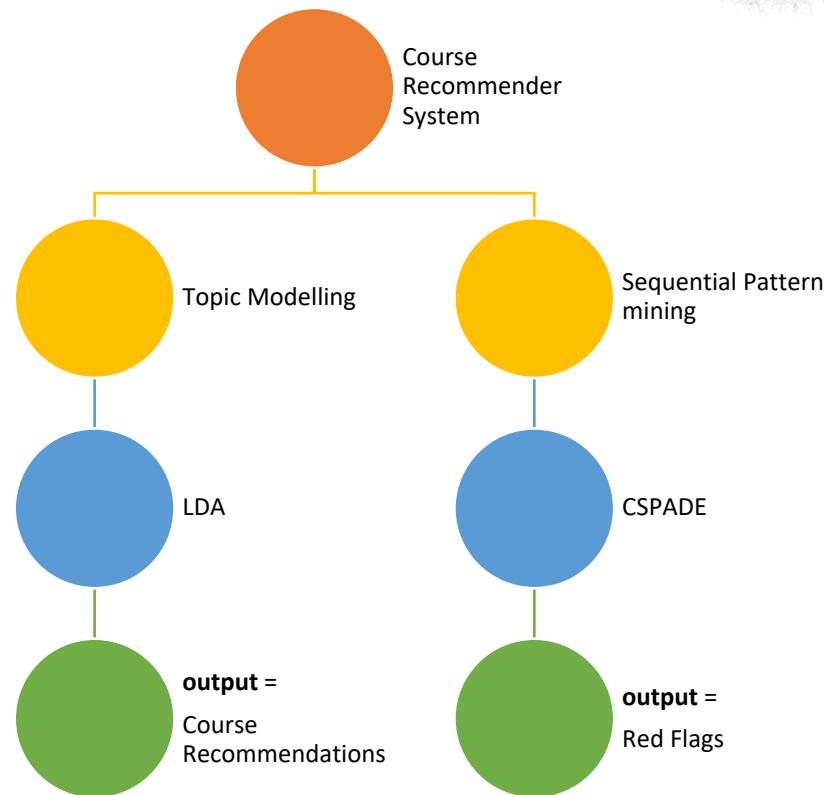
Curriculum  
Development



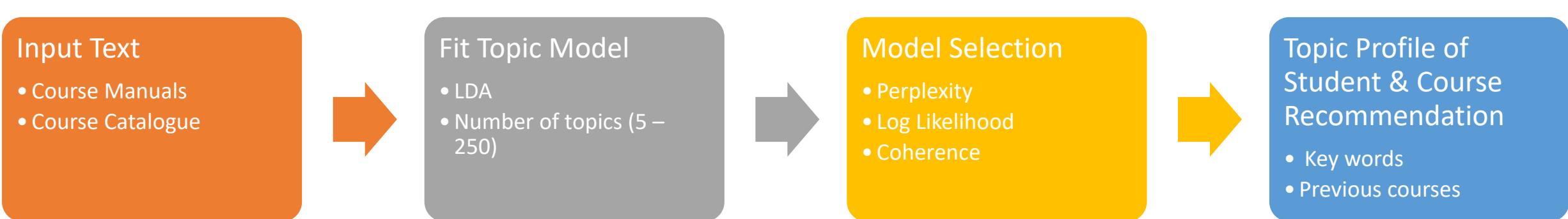
# 2. The Recommender System



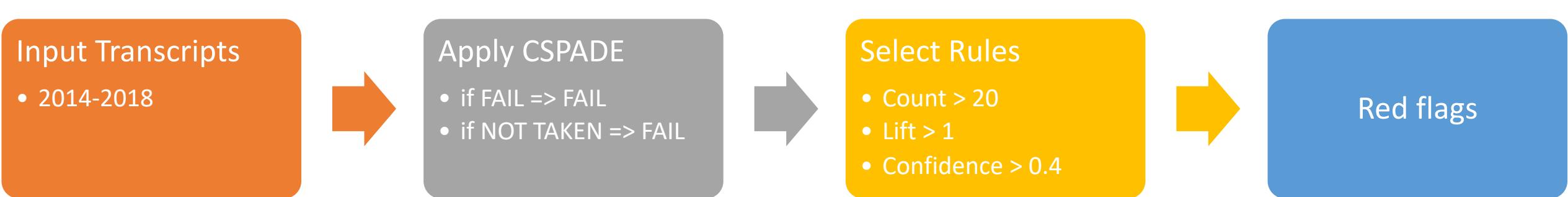
# Recommender System for Students



# Topic Modelling



# Sequence Mining



# 3. Prototype



**Student ID**

6087587

**Tentative Courses for following period**

- CAP3000    COR1002    COR1003    COR1004
- COR1005    HUM1003    HUM1007    HUM1010
- HUM1011    HUM1012    HUM1013    HUM1014
- HUM2003    HUM2005    HUM2007    HUM2008
- HUM2013    HUM2014    HUM2018    HUM2021
- HUM2022    HUM2030    HUM2031    HUM2043
- HUM2044    HUM2046    HUM2047    HUM2050
- HUM2051    HUM2052    HUM2054    HUM2055
- HUM2056    HUM2057    HUM3019    HUM3029
- HUM3034    HUM3036    HUM3040    HUM3041
- HUM3042    HUM3045    HUM3048    HUM3049
- HUM3050    HUM3051    SCI1004    SCI1005
- SCI1009    SCI1010    SCI1016    SCI2002    SCI2009
- SCI2010    SCI2011    SCI2012    SCI2017    SCI2018
- SCI2019    SCI2022    SCI2031    SCI2033    SCI2034
- SCI2035    SCI2036    SCI2037    SCI2038    SCI2039
- SCI2040    SCI3003    SCI3005    SCI3006    SCI3007
- SCI3033    SCI3046    SCI3048    SCI3049    SCI3050
- SCI3051    SSC1003    SSC1005    SSC1006
- SSC1007    SSC1009    SSC1025    SSC1027
- SSC1029    SSC2004    SSC2006    SSC2008
- SSC2018    SSC2019    SSC2020    SSC2022
- SSC2024    SSC2025    SSC2027    SSC2028
- SSC2034    SSC2036    SSC2037    SSC2038
- SSC2039    SSC2042    SSC2043    SSC2046
- SSC2048    SSC2050    SSC2052    SSC2053
- SSC2055    SSC2058    SSC2059    SSC2060
- SSC2061    SSC2062    SSC2063    SSC2064
- SSC2065    SSC2066    SSC3002    SSC3011
- SSC3012    SSC3016    SSC3017    SSC3018
- SSC3019    SSC3023    SSC3030    SSC3032
- SSC3033    SSC3036    SSC3038    SSC3040
- SSC3044    SSC3045    SSC3047    SSC3049
- SSC3050    SSC3051    SSC3052    SSC3053
- SSC3054    UGR3001    UGR3002    UGR3003
- UGR2001

**Red flag for SCI2012:**

You have obtained less than 7/10 in SSC2043 and 76.5% of the 34 students who have taken SCI2012 after obtaining less than 7/10 in SSC2043 obtained less than 7/10 in SCI2012.

**Red flag for SCI2034:**

You have not taken SSC1005 and 44.2% of the 104 students who have taken SCI2034 without first taking SSC1005 obtained less than 6.5/10 in SCI2034.

**Reset inputs**

**Academic Interest**

- 2016    academic    account    action    address    age
- analysis    analyze    apply    approach    argument
- art    aspect    bate    biology    book    brand
- busy    cell    chemistry    child    children    close
- cognitive    concept    conflict    cultural    culture
- cuss    data    day    depth    develop    digital
- doe    economic    edition    european    evolution
- foreign    gain    genre    heal    history    human
- information    integrate    international    interpretation
- interview    issue    knowledge    language    law
- lecture    legal    level    life    literature    main
- manage    market    mathematical    media    memory
- method    model    negotiate    oxford    participant
- pbl    perspective    philosopher    philosophy    physic
- policy    political    post    presentation    primarily
- primary    project    psychological    psychology
- public    qualitative    read    remembrance    role
- science    search    selection    skill    social    song
- source    statistic    student    study    sustain
- system    technology    theory

**Additional Key Word 1****Additional Key Word 2****Additional Key Word 3****Additional Key Word 4****Additional Key Word 5**

Course Recommendation **SSC3054 International Trade Law: Globalization, Trade and Development** because you selected the key words: **economic, international, law**

Course Recommendation **SSC3053 Corporate Finance** because you selected the key words: **economic, international, market**

Course Recommendation **SSC3036 American Foreign Policy** because you selected the key words: **international, law, policy**

Course Recommendation **SSC2024 International Law** because you selected the key words: **economic, international, law**

Course Recommendation **SSC3002 European Foreign Policy** because you selected the key words: **international, law, policy**

Course Recommendation **SSC3045 Management and Organization of Asian Enterprises** because you selected the key words: **economic, international, market**

Course Recommendation **SSC3057 Economics and Society: History of Economic Thought** because you selected the key words: **economic, international, market**

Course Recommendation **SSC3030 European Institutions** because you selected the key words: **conflict, international, law**

Course Recommendation **SSC1007 Introduction to Law** because you selected the key words: **international, law, policy**

Course Recommendation **SSC3049 Human Rights** because you selected the key words: **conflict, international, law**

Course Recommendation **SSC1027 Principles of Economics** because you selected the key words: **economic, international, market**

Course Recommendation **SSC2036 Introduction to Business Administration** because you selected the key words: **economic, international, market**



# Contact:

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