



Maastricht University

# DARS

Data Analysts for your Recommender System



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# 1. The Project & What we're doing



# The Project

- Started in September 2018
- Recommender System for *Students* of
  - Maastricht School of Liberal Arts and Sciences
- Supporting Team:
  - Department of Knowledge Engineering

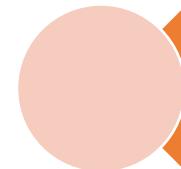


# GOAL

- 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



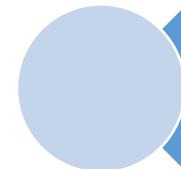
Students



Academic Advisors



Curriculum Development



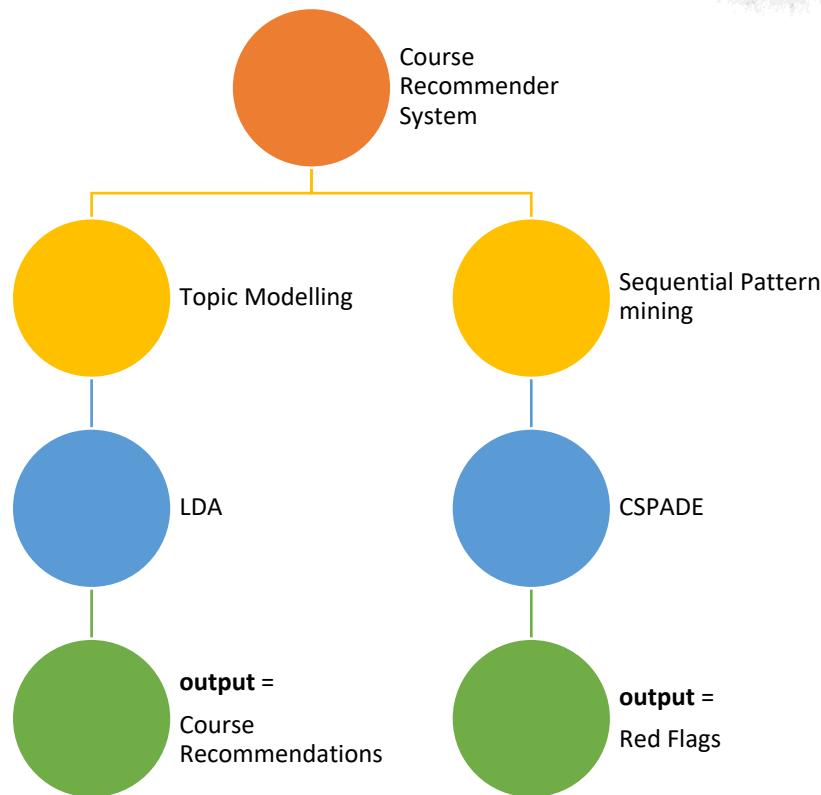
Management



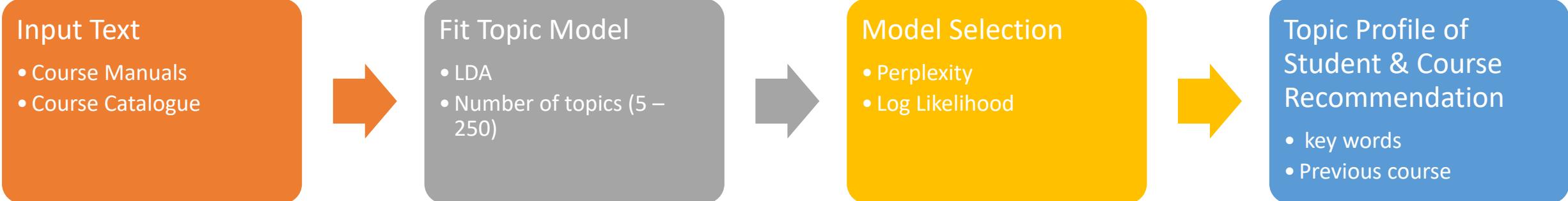
# 2. The Recommender System



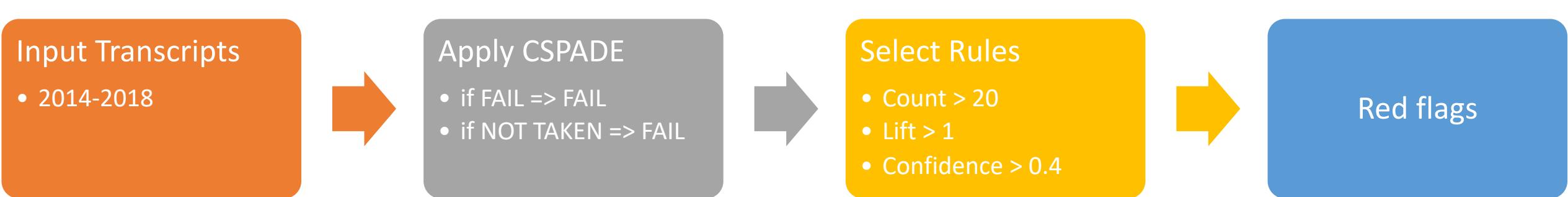
# Recommender System for Students



# 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.

**Red flag for SCI3046:**

You have not taken SSC1005 and 41.7% of the 48 students who have taken SCI3046 without first taking SSC1005 obtained less than 6.5/10 in SCI3046.

**Red flag for SSC2004:**

You have not taken SSC1005 and 45.5% of the 77 students who have taken SSC2004 without first taking SSC1005 obtained less than 6.5/10 in SSC2004.

**Red flag for SSC2006:**

You have not taken SSC1005 and 41.2% of the 68 students who have taken SSC2006 without first taking SSC1005 obtained less than 6.5/10 in SSC2006.

**Red flag for SSC2022:**

You have not taken SSC1027 and 43.2% of the 111 students who have taken SSC2022 without first taking SSC1027 obtained less than 6.5/10 in SSC2022.



**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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