

Human-Centered Recommender Systems

**A Case Study Approach
from Discriminative to Generative AI in Visual
Arts and Healthcare**



The Course

- TOTAL estimated workload: 50 hrs
- Lecture hours: ~6 hours
 - Practical work: ~6 hours
 - homework: 25 hours writing a report + discussions, feedback and work presentations

YOU



- New to RecSys or expanding into RecSys research
- Work in an industry where human-centered RecSys applications are relevant
- Researcher or practitioner interested in Human-Centric RecSys
- Graduate student exploring RecSys as a research topic

Prerequisites



- **Familiarity** with Machine Learning,
- **Knowledge** of Algebra and Calculus,
- **Prior experience** with Python programming language.



Timeline



Day 1

Part 1: Introduction: Human-Centered RecSys

Part 2: The HC RecSys pipeline: A case-study approach

Part 3: Hands-on

Part 4: A Multi-Stakeholder aware RecSys

Formulating the RecSys Problem? → (A framework)

Part 5: Group work

Day 2

Part 6: VA RecSys for Post-Intensive Care Syndrome (PICS) intervention

Part 7: Modern RecSys Paradigms

Large Language/Vision Models as RecSys (Zero & Few shot)

Part 8: Common Issues and Challenges in RecSys

Part 9: Hands-on

Part 10: Group work



- Lecture Slides
- Jupyter Notebooks
- Additional reading





<https://github.com/Bekyilma/HC-RecSys25>



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