CD: Project



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Data analytics workflow...



Dilemma in Big Data analysis

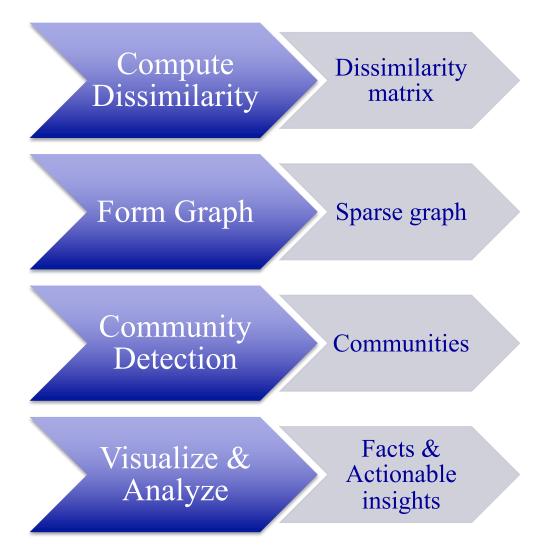
- ☐ Know what we know
- **☐** Know what we don't know
- □ Don't know what we know

□ Don't know what we don't know

What can we do?

How can CD help?

CD-Proj Workflow...



(CD Course) Page 4

Project GOALS

- 1. Big data gives us big graphs
- 2. Detect communities in these graphs
- 3. Analyze the communities detected
 - Derive/confirm known facts / relationships
 - Derive new insights (betw. community & relationships)
 - **Can turn into competitive advantage?**

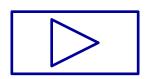


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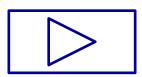
Projects from Summer 2018 (1)

- 1. Evolution of Architectural Genre
- 2. Analysis of Monkey Species
- 3. Gossip Arts (analysis of paintings/painters)
- 4. CD of Chinese Movie Actors
- 5. Nerd Gallery (CD on Painting Styles)
- 6. Fashion Miner (CD on Runway Fashion)



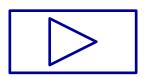
Projects from Summer 2018 (2)

- 7. Music Genre Analysis (Music Video Scenes)
- 8. The Next City (CD of Cities)
- 9. Relationship Discovery of Wikipedia Entries
- 10. Target: James Bond
- 11. Influence of CNN Model on CD Algorithm



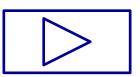
Projects from Summer 2019 (1)

- 1. Finding your Twin University (based on logos)
- 2. Communities based on Daily News Feeds
- 3. Digging into Movie Posters
- 4. Harry Porter: Can Data Perform Magic?
- 5. CD Analysis to Detect Depressive Tendencies
- 6. The Gallery of Calligraphy



Projects from Summer 2019 (2)

- 7. Communities from Game Posters
- 8. GitPals: Mining Communities in GitHub
- 9. Communities from Youtube Video Titles
- 10. From books to Movies
- 11. Who Can Replace Cristiano Ronaldo



Feedback Summary (2018)

- ☐ M1: Don't take too long with project proposal
 - Choose images quickly (prepare/trim them)
- **□** For **M2**
 - **❖ Quickly** go through *one complete cycle*
 - Then even if you change data, you can do it QUICKLY
- **□** For M3:
 - Check the "quality" of your communities
 - What are known/expected insights?
 - Can you find new/unexpected insights?

Feedback

- ☐ Communities are *the end* of your project
- ☐ Communities are *starting points* of analysis
- □ Did you discover any *new insights*?
- ☐ Turn new insights into actionable insights

Thank you.

Q&A



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