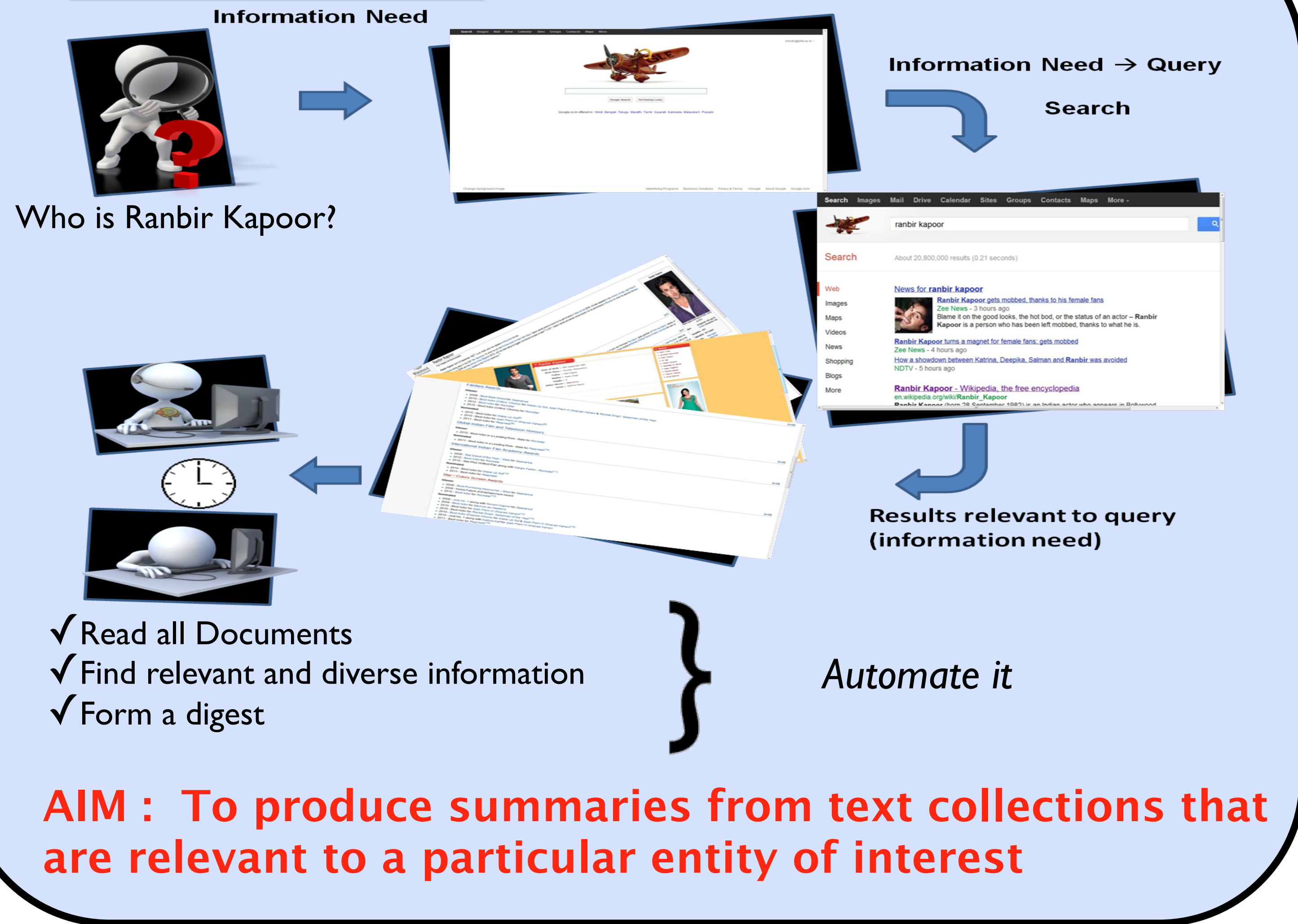


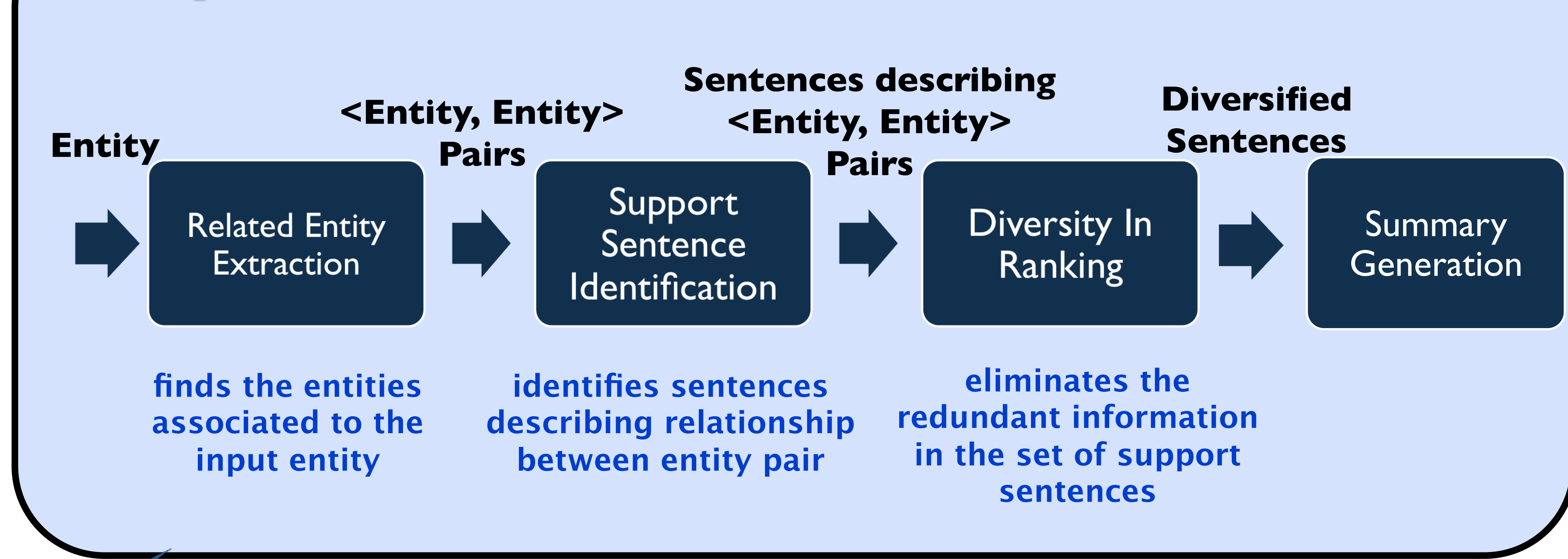
ENTITY-CENTRIC SUMMARIZATION

Shruti Chhabra, Srikanta Bedathur
 Indraprastha Institute of Information Technology, Delhi
 {shruti, bedathur}@iiitd.ac.in

Introduction



Proposed Framework



Illustration

Related Entities Extraction

- Challenges:**
- Requires the retrieval approach to be domain-independent
 - Applicable to varied entity types
 - Retrieved entities must have a relation with the source entity

Support Sentences Identification

- Challenges:**
- Entities mentioned in their various surface forms in document
- Proposed Approach:**
- Entity surface form mapping dictionary
 - Context plays imp. role
- Ranking model : $Hee' = Fe(s, Cs) \quad \forall s \in See'$

Diversity In Ranking

- Challenges:**
- Sentences may partially contain overlapping information
 - Sentences conveying similar information have different word distribution

References

- Sauper, C., and Barzilay, R. Automatically generating wikipedia articles: a structure-aware approach. AFNLP (2009), pp. 208-216.
- Filippova, K., Surdeanu, M., Ciaramita, M., and Zaragoza, H. Company-oriented Extractive Summarization of Financial News. ACL (2009), pp. 246-254.
- Blanco, R., and Zaragoza, H. Finding Support Sentences for Entities. SIGIR (2010), pp. 339-346

facebook

(Organization)

- Related Entities**
- Chris Hughes (Person)
 - Dustin Moskovitz (Person)
 - Harvard (Organization)
 - Facebook (Building)
 - 2004 (Date)
 - Mark Zuckerberg (Person)
 - News Feed (Organization)
 - Facebook Platform (Building)
 - ...

Diversified Support Sentences

- Zuckerberg launched the online social directory Facebook on February 4, 2004, for Harvard students.
- Mark Zuckerberg, Chris Hughes and Dustin Moskovitz (co-founders of Facebook)
- Mark Zuckerberg, Facebook creator, b. 1984
- Zuckerberg currently works at Facebook's Palo Alto, California headquarters.
- The first of the new features, News Feed, appears on every Facebook member's home page, displaying recent Facebook activities of a member's friends