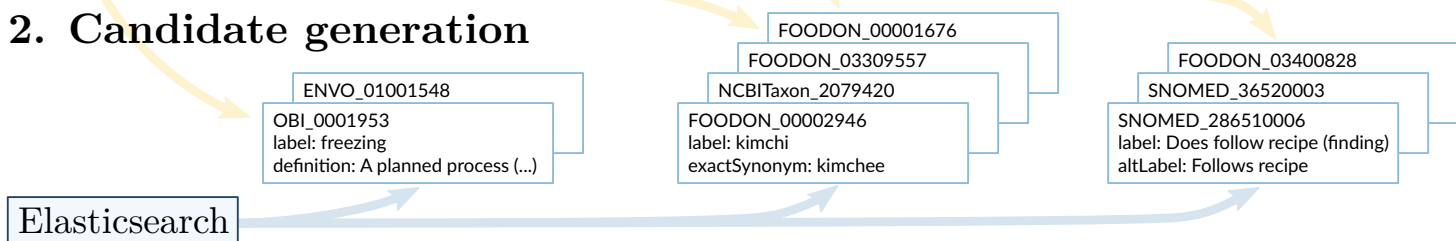


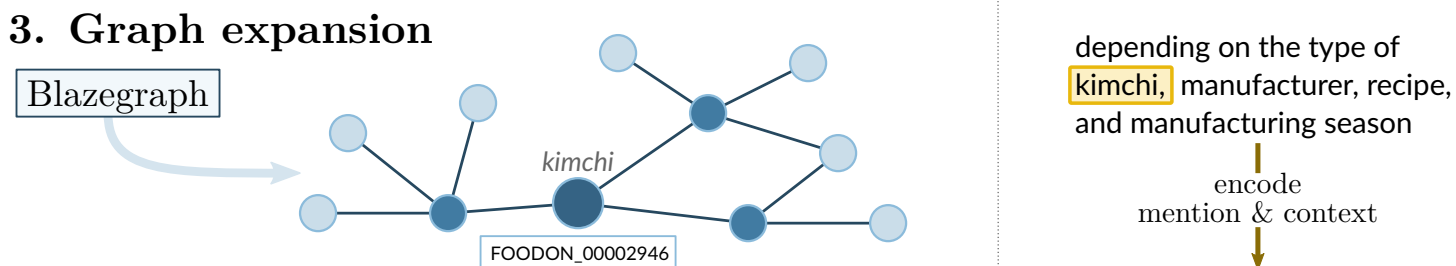
1. Named entity recognition

The **supercooling degree (SD)**, which refers to the difference between the **ice nucleation temperature** and **freezing point** of **kimchi**, varies depending on the type of **kimchi**, manufacturer, **recipe**, and **manufacturing season**.

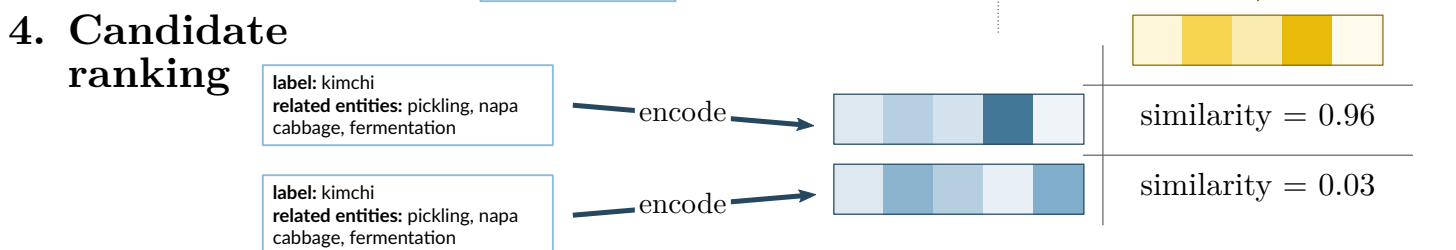
2. Candidate generation



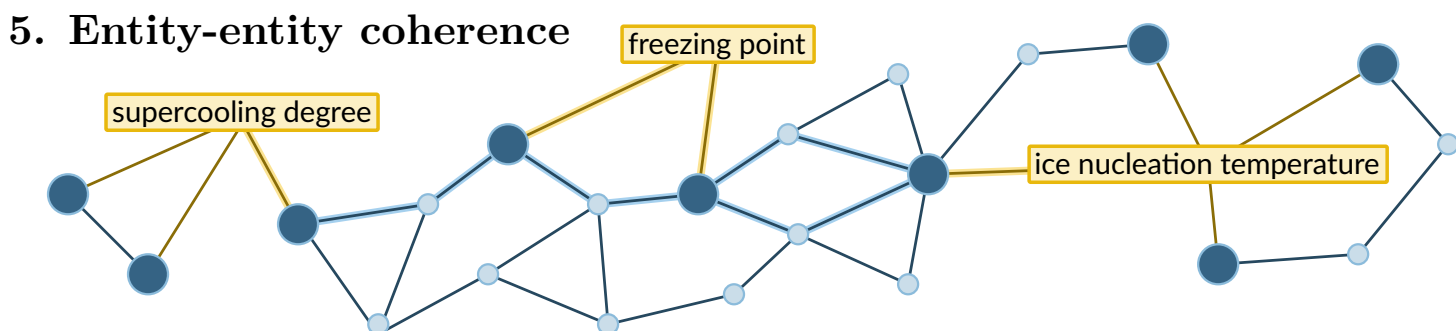
3. Graph expansion



4. Candidate ranking



5. Entity-entity coherence



6. Candidate selection and results enhancement

