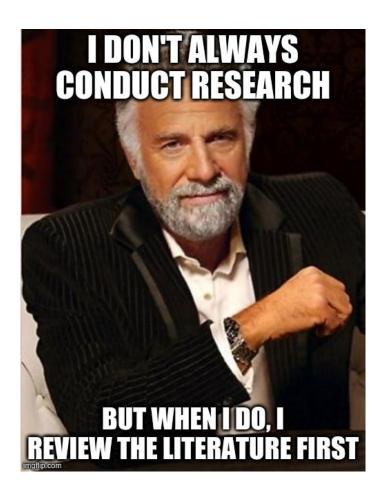
How to Conduct Literature Review Effectively

Valerio Velardo



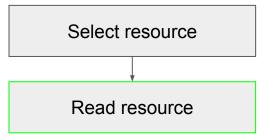
Literature review goals

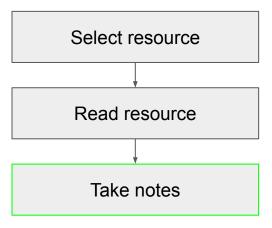
- Determine state of the art in an area
- Identify the methodologies currently used to tackle a research problem
- Identify gap(s) / problems in the literature for further research
- Inform the research topic and associated methodology

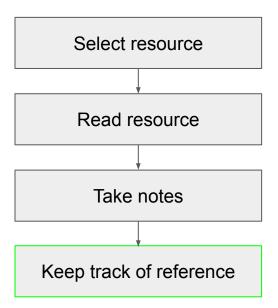
Why is literature review important?

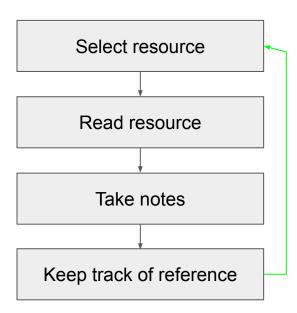
- Foundation for your research
- Avoid reinventing the wheel
- Can assist refining your research topic / questions
- Increase the chance your paper gets accepted!

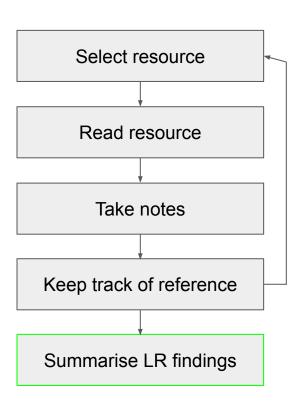
Select resource











- Textbooks
- Survey articles
- Scientific papers
- Commercial documents / products
- Blogs, magazine articles, newspapers

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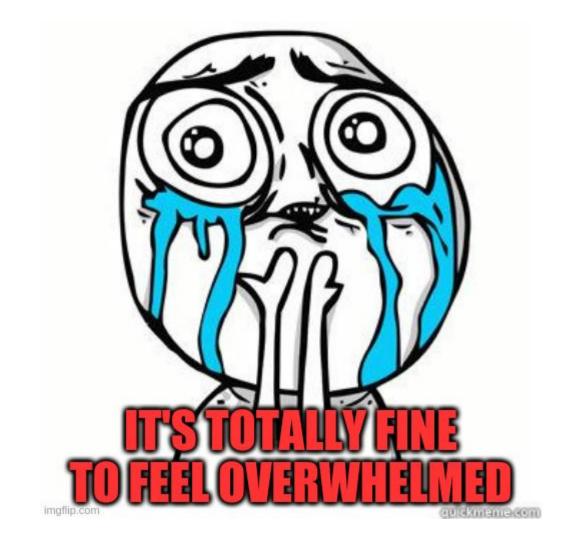






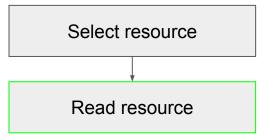


- Conference proceedings
 - o ISMIR, AIMC, CSMC, ICML, ...
- Journals
 - JCMS, Transactions of ISMIR
- Researchers' websites, blogs



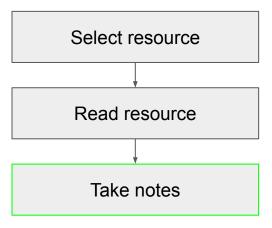
Selecting resources: Tips

- Focus on a specific area (be selective!)
- Driven by your research questions
- Start from surveys
- Focus on recent literature



Reading a resource

How to Read AI (Audio) Research Papers Like a Rockstar



Taking notes

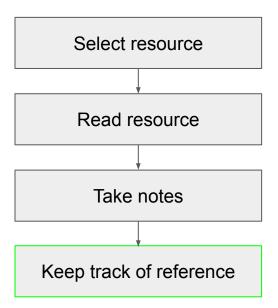
- Create a summary doc for each resource you review
- Summarise:
 - Topic
 - Approach
 - Results
 - Contributions
 - Limitations / weaknesses

Summary template used in OpenSource Research Project

Join The Sound of AI community!



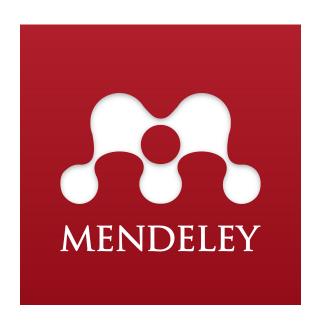
thesoundofai.slack.com



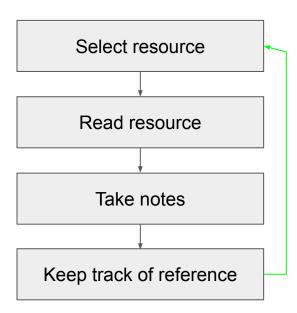
Keeping track of references

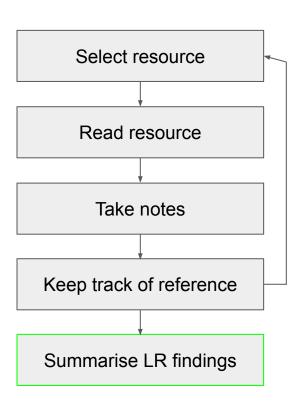
- Organise your references in reference manager software
- Speed up article retrieval
- Facilitate paper comparisons

Keeping track of references









Summarise LR findings

- Meta-level reflection
- Compare resources

Summarise LR findings

- What are the approaches used by other researchers?
- What worked / what didn't?
- What are the results so far?
- What are the gaps in the literature?
- How can I position / refine my research (questions)?