

1. Install spaCy and load the en_core_web_sm model using Python.
2. Using PhraseMatcher, extract the skills Python and SQL from the text: 'I have experience in Python and SQL.'
3. Create a Python list of five technical skills and convert them into PhraseMatcher patterns.
4. Write code to convert all extracted skills into lowercase.
5. Remove duplicate skills from a list of extracted skills.
6. Extract technical skills from the sentence: 'Experience in Python, NLP, and Machine Learning with SQL.'
7. Identify soft skills from a resume text using token comparison and a predefined soft skill list.
8. Configure PhraseMatcher to perform case-insensitive matching.
9. Store extracted technical and soft skills in the JSON structure: { technical_skills: [], soft_skills: [] }.
10. Extract skills from a paragraph that contains repeated skill mentions and ensure duplicates are removed.
11. Ensure skills are correctly extracted from text containing punctuation such as commas and semicolons.
12. Combine PhraseMatcher for technical skills and rule-based token matching for soft skills in a single spaCy pipeline.
13. Extract skills from multiple sentences and merge them into one normalized output dictionary.
14. Modify skill extraction logic to match SQL but not NoSQL.
15. Given a resume and a job description, extract skills separately and output them as two different JSON objects.