

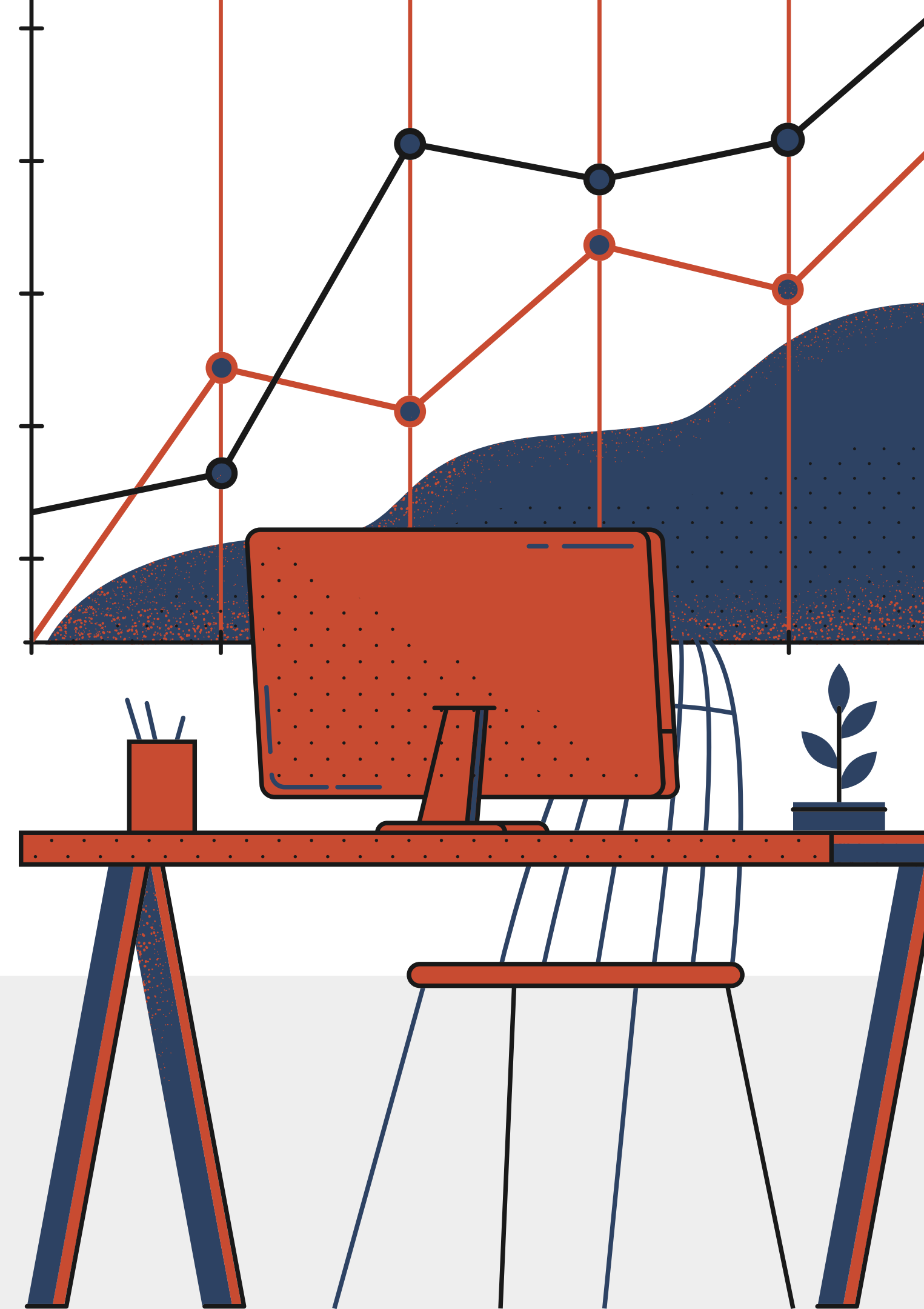
Thursday, 7

Rochester Institute of Technology

Computational Analysis of Gender Perception in the UK Before and After Women's Suffrage

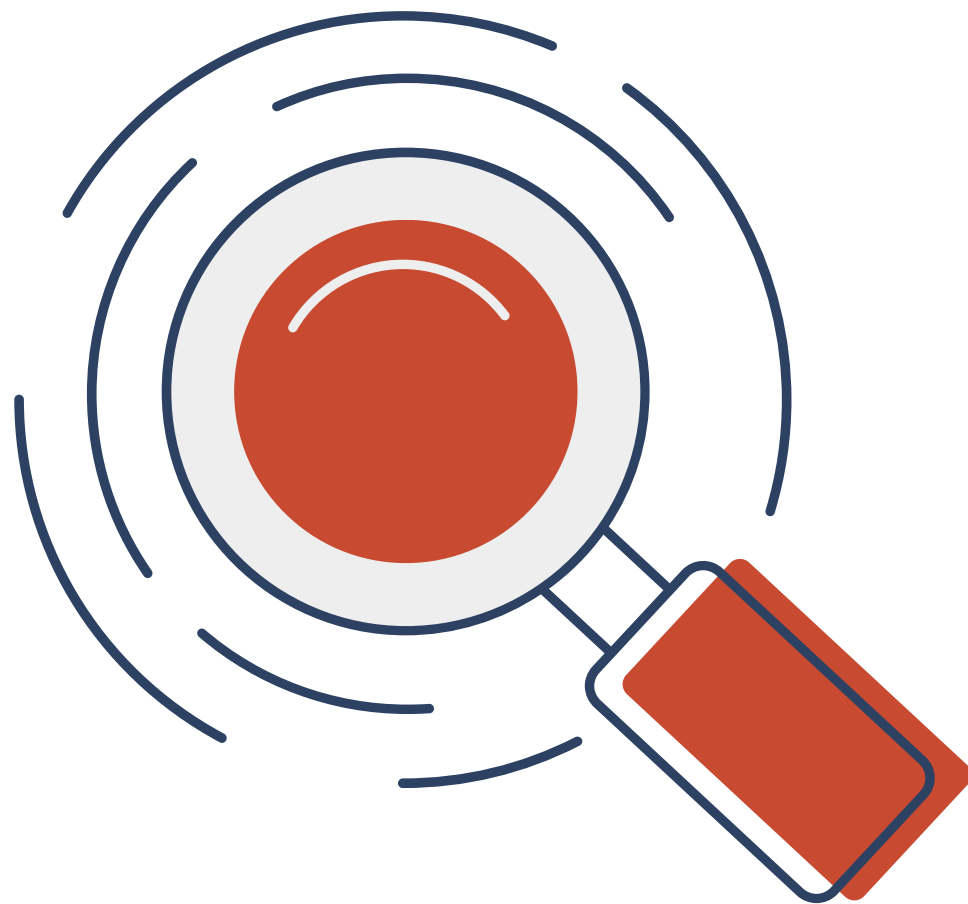
PRESENTED BY
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FACULTY ADVISOR
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In the UK, It was not until the Equal Franchise Act of 1928 that women over 21 were able to vote and women finally achieved the same voting rights as men

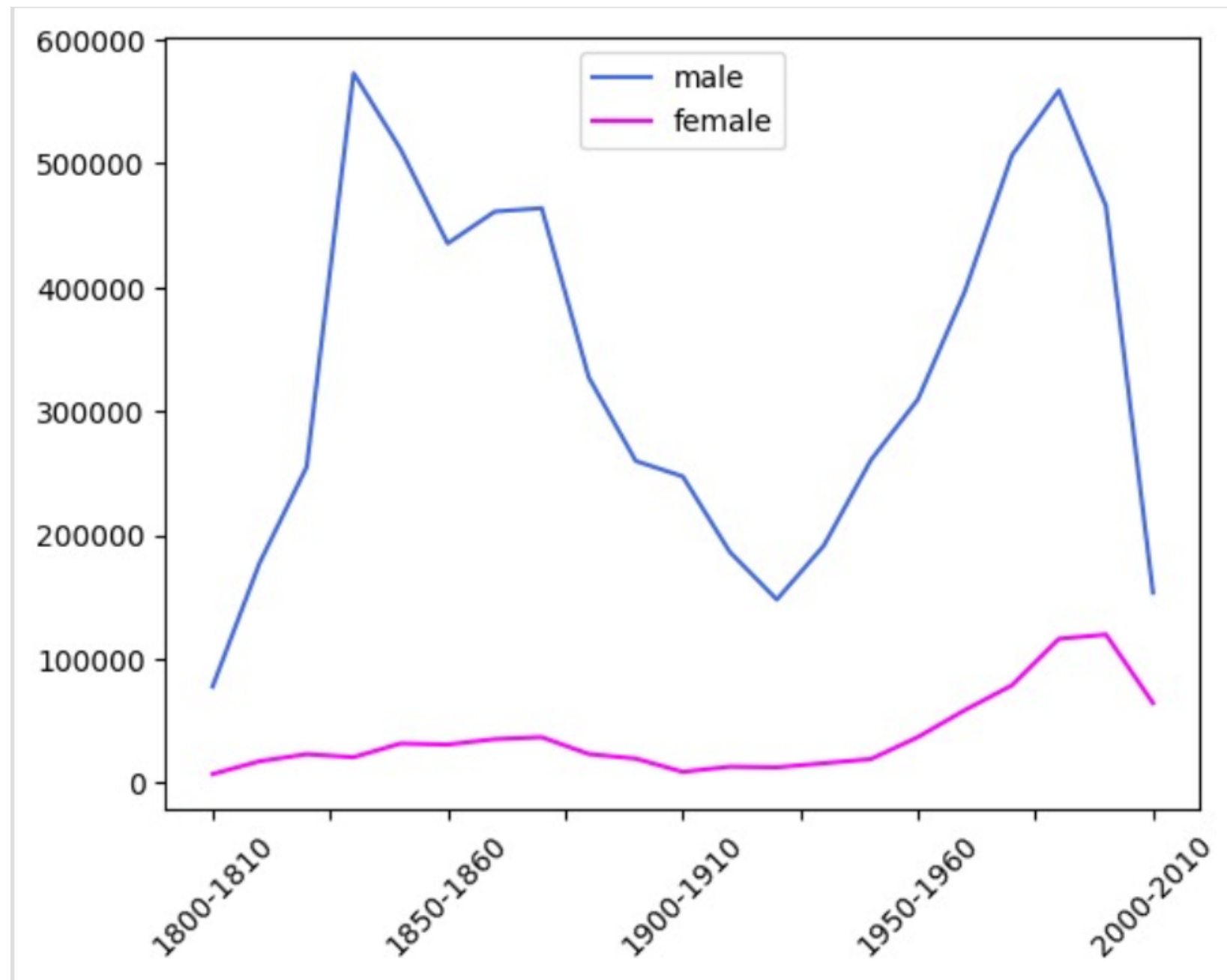


- Collect text-based transcripts of British parliamentary debates from the Hansard website between 1800 and 2000
- Gain an understanding of how women's representation has evolved over time
- Extend work to check how women were perceived in those countries before and after Women's Suffrage in Some countries where women were not given voting rights until the 21st century (If time permits)

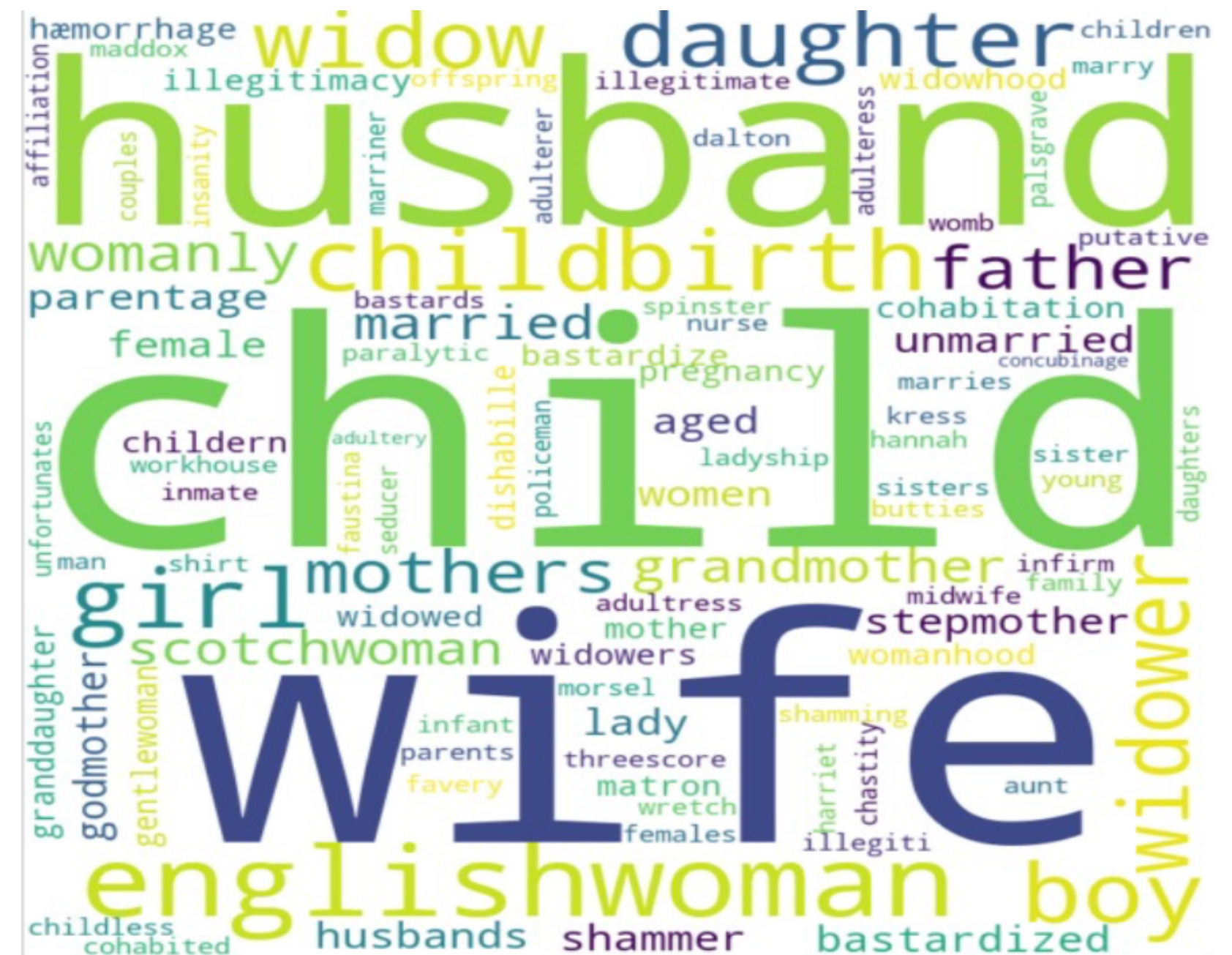


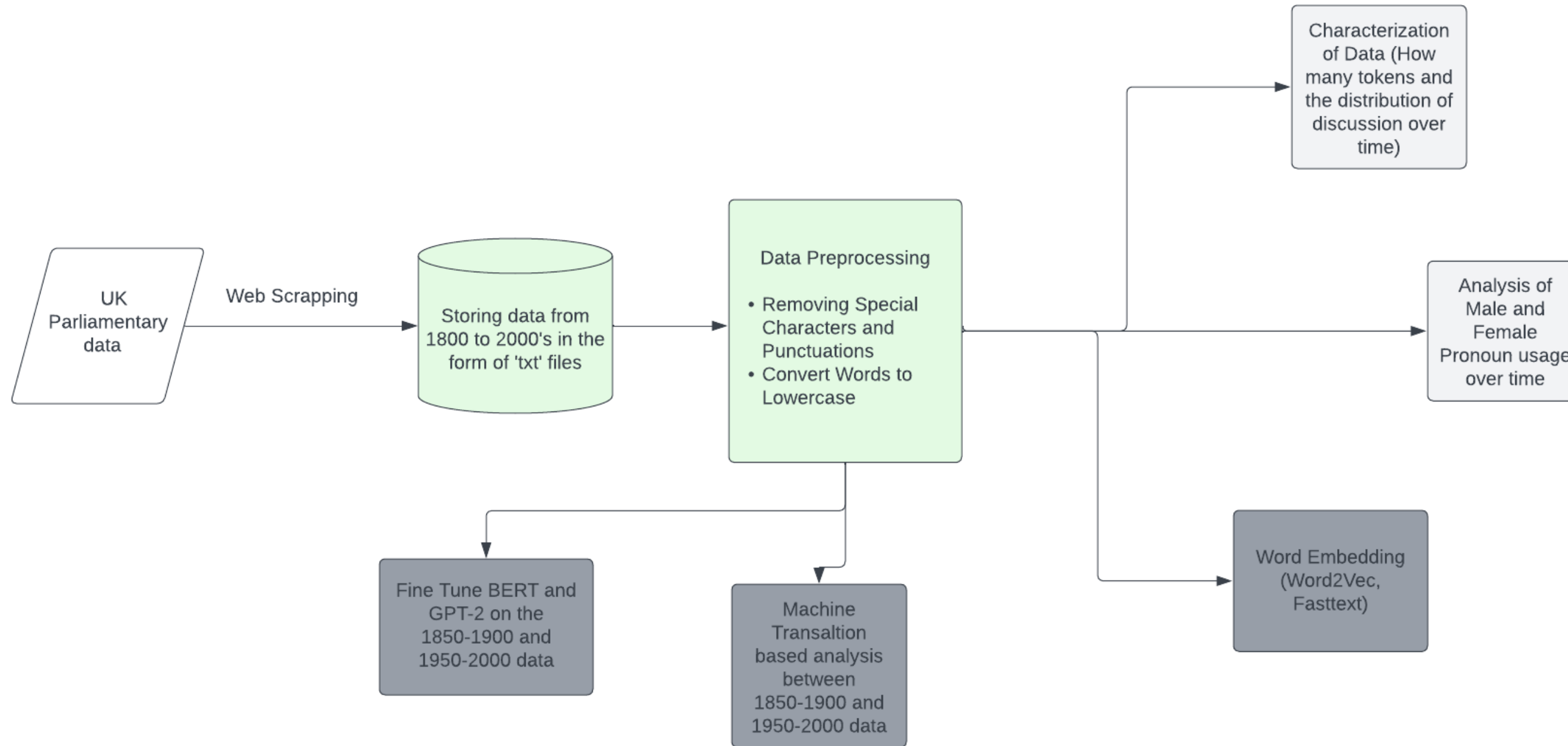
- 4GB text transcripts of parliamentary debates were collected from the UK Hansard website
- The text files were cleaned of punctuation, ASCII characters and other tags. All the words were converted to lowercase
- Gender Pronoun Count and Word Cloud were generated for 1800–1850 and 1950–2004

Gender Pronoun Count



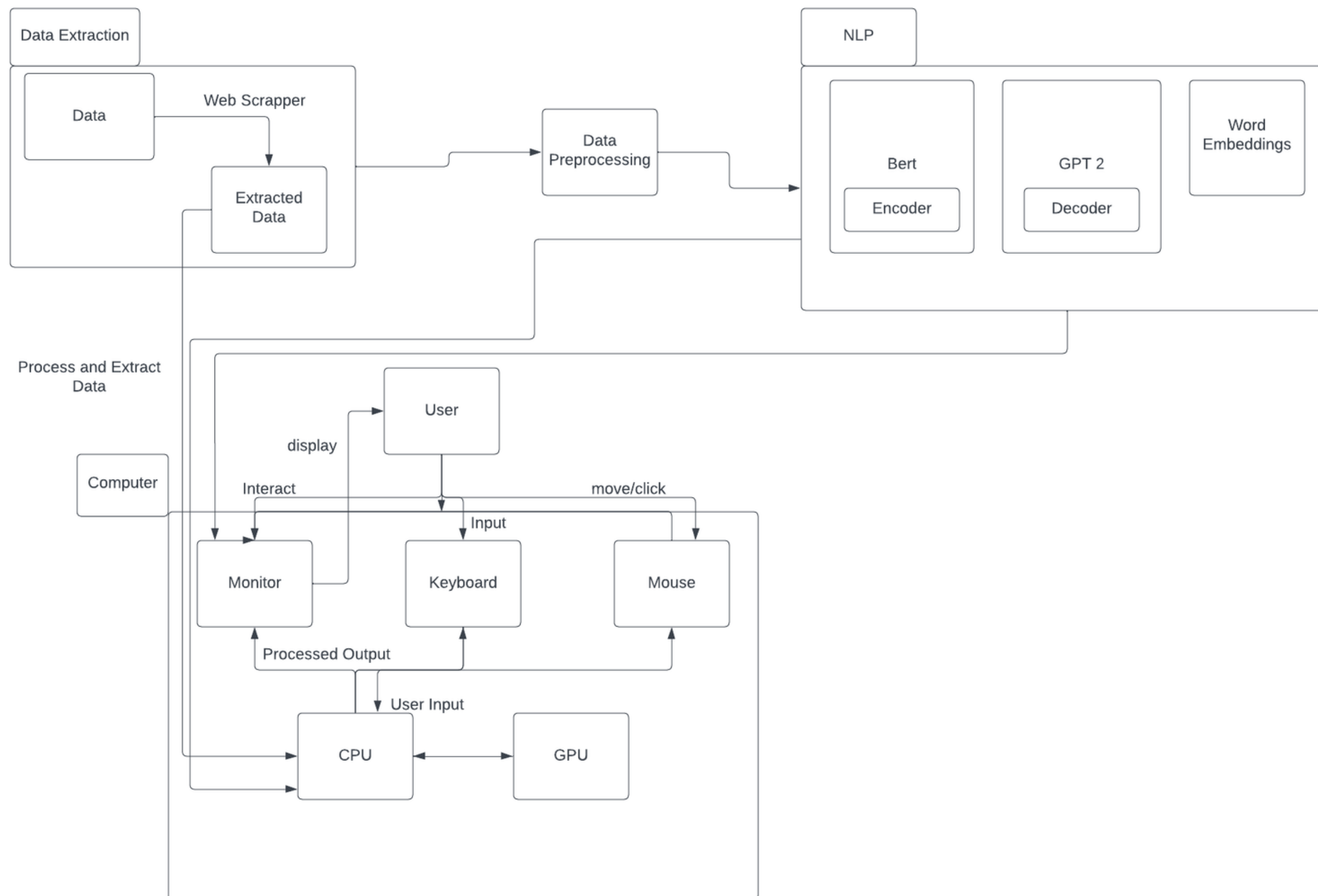
Word Cloud for the word 'Woman' (1800-1850)

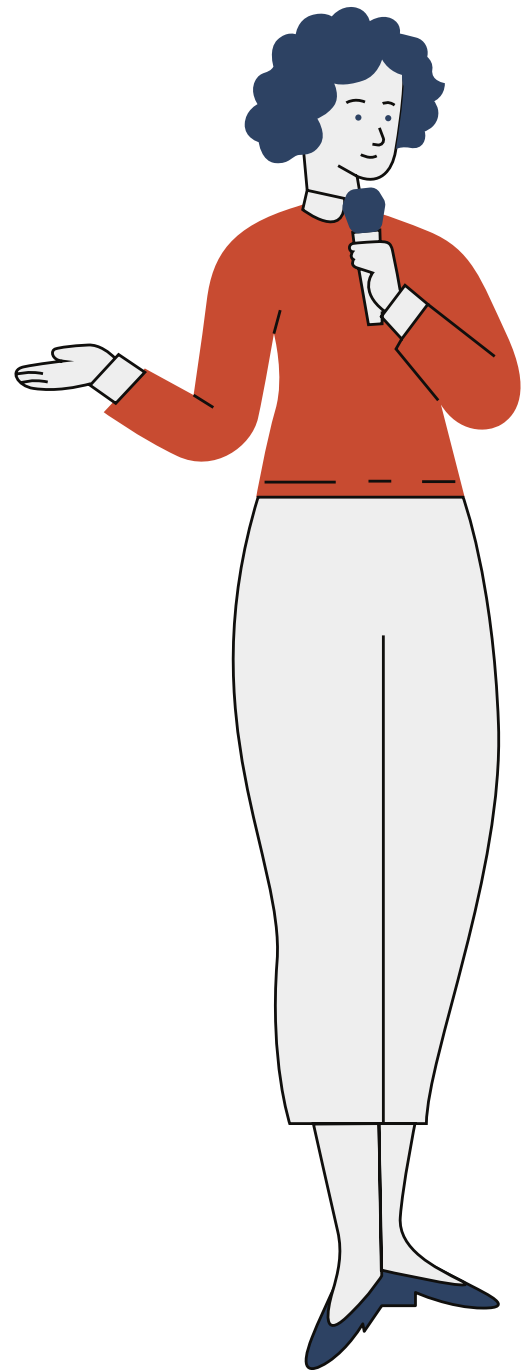




WORK DONE

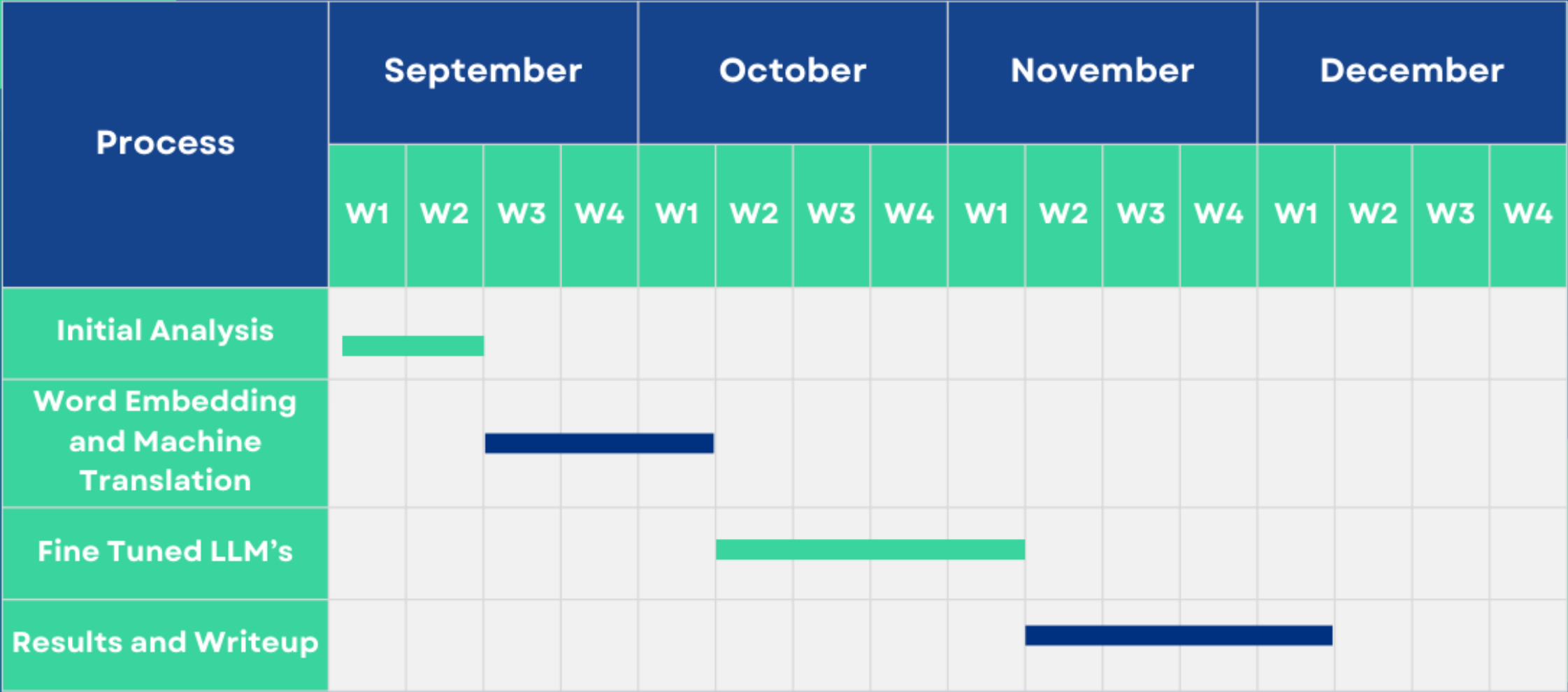
WORK HALF
DONEWORK TO BE
DONE





- A complete characterization of the data
- A fine-grained analysis of Male and Female pronoun usage over the entire time
- Word-embedding to find the words associated with Men and Women
- A Machine Translation-based analysis between 1850 – 1900 and 1950 – 2000 data
- Fine-tune BERT and GPT2 on the 1850 – 1900 and 1950 – 2000 data and analyze the differences
- Submit the paper to IJCAI AI for Social Good track / ACM Web Science 2024

PROJECT TIMELINE



The End

Thank you

