Appendix: Use of AI-based Tools

Text Refinement

ChatGPT was utilized to refine and enhance the clarity and readability of the text. It was used for grammar correction, sentence restructuring, and improving the overall quality of the written content.

Code Generation

ChatGPT assisted in generating and refinment of the code used in implementing image processing techniques.

Ethical Compliance

The use of AI tools was restricted to the aforementioned purposes and did not compromise the originality of the research or the validity of its findings. All AI-assisted outputs were reviewed and validated by the author(s) to ensure accuracy and relevance.