

## Student Declaration of AI Tool use in this Assessment

Please indicate your level of usage of generative AI for this assessment - please tick the appropriate category(s).

If the “Assisted Work” or “Partnered Work” category is selected, please expand on the usage and in which elements of the assignment the usage refers to.

Solo Work	<b>S1 - Generative AI tools have not been used for this assessment.</b>	<input type="checkbox"/>
Assisted Work	<b>A1 – Idea Generation and Problem Exploration</b> Used to generate project ideas, explore different approaches to solving a problem, or suggest features for software or systems. Students must critically assess AI-generated suggestions and ensure their own intellectual contributions are central.	<input type="checkbox"/>
	<b>A2 - Planning &amp; Structuring Projects</b> AI may help outline the structure of reports, documentation and projects. The final structure and implementation must be the student's own work.	<input type="checkbox"/>
	<b>A3 – Code Architecture</b> AI tools maybe used to help outline code architecture (e.g. suggesting class hierarchies or module breakdowns). The final code structure must be the student's own work.	<input type="checkbox"/>
	<b>A4 – Research Assistance</b> Used to locate and summarise relevant articles, academic papers, technical documentation, or online resources (e.g. Stack Overflow, GitHub discussions). The interpretation and integration of research into the assignment remain the student's responsibility.	<input type="checkbox"/>
	<b>A5 - Language Refinement</b> Used to check grammar, refine language, improve sentence structure in documentation not code. AI should be used only to provide suggestions for improvement. Students must ensure that the documentation accurately reflects the code and is technically correct.	<input type="checkbox"/>
	<b>A6 – Code Review</b> AI tools can be used to check comments within the code and to suggest improvements to code readability, structure or syntax. AI should be used only to provide suggestions for improvement. Students must ensure that the code accurately reflects their knowledge and is technically correct.	<input type="checkbox"/>
	<b>A7 - Code Generation for Learning Purposes</b> Used to generate example code snippets to understand syntax, explore alternative implementations, or learn new programming paradigms. Students must not submit AI-generated code as their own and must be able to explain how it works.	<input type="checkbox"/>
	<b>A8 - Technical Guidance &amp; Debugging Support</b> AI tools can be used to explain algorithms, programming concepts, or debugging strategies. Students may also help interpret error messages or suggest possible fixes. However, students must write, test, and debug their own code independently and understand all solutions submitted.	<input type="checkbox"/>

	<p><b>A9 - Testing and Validation Support</b> AI may assist in generating test cases, validating outputs, or suggesting edge cases for software testing. Students are responsible for designing comprehensive test plans and interpreting test results.</p>	<input type="checkbox"/>
	<p><b>A10 - Data Analysis and Visualization Guidance</b> AI tools can help suggest ways to analyse datasets or visualize results (e.g. recommending chart types or statistical methods). Students must perform the analysis themselves and understand the implications of the results.</p>	<input type="checkbox"/>
	<p><b>A11 - Other uses not listed above</b> Please specify:</p>	<input type="checkbox"/>
<b>Partnered Work</b>	<p><b>P1 - Generative AI tool usage has been used integrally for this assessment</b> Students can adopt approaches that are compliant with instructions in the assessment brief.  Please Specify:</p> <ul style="list-style-type: none"> <li>• Summarising and shortening sentences to meet word count.</li> <li>• Report guidance to ensure criteria met.</li> <li>• To help with understanding how a certain Wireshark filter works.</li> <li>• Clarifying errors such as why a certain filter shows no packets.</li> <li>• Researching new concepts like Cobalt Strike Servers.</li> <li>• Generate Readme file for Git repo</li> </ul>	<input checked="" type="checkbox"/>

**Please provide details of AI usage and which elements of the coursework this relates to:**

Generative AI was used in a supportive role in the report section of this coursework. I leveraged AI to help summarise large sentences to lower word count. Provide guidance so that the report aligned with the marking criteria. Also, AI was used to help understanding certain Wireshark filters and troubleshoot any issues.

All the PCAP analysis, filtering, data extraction and interpretation was done independently by me.

I understand that the ownership and responsibility for the academic integrity of this submitted assessment falls with me, the student.	<input checked="" type="checkbox"/>
I confirm that all details provide above are an accurate description of how AI was used for this assessment.	<input checked="" type="checkbox"/>