CMP9132M Advanced Artificial Intelligence, Assessment Item 1

Learning Outcome	Criterion	Pass	Merit	Distinction
[LO1] Critically appraise a range of AI techniques for decision-making, problem solving and learning, identifying their strengths and weaknesses, and selecting appropriate methods to serve particular roles [LO3] Design and develop an AI-based software program for solving complex search problems in an application domain of interest.	Criterion 1: Task on Probability (weighting 40%)	The report discusses the selection of the programming framework to implement the AI-based software, but lacks a convincing justification for this decision. The AI software solves part of the proposed problem. However, there are some critical errors in the implementation and design of the software.	The report discusses an appropriate software framework to implement the AI-based software and clearly justifies the decision. The AI software solves the proposed problem but there are some non-critical errors in the design and implementation of the software.	The report presents the most appropriate framework for developing the AI-based software and gives a very good justification. The AI software solves the proposed problem and the software does not contain any significant error in the design and implementation, which are both very appropriate.
	Criterion 2: Task on Hidden Markov Models (weighting 60%)	The report discusses the selection of the programming framework to implement the AI-based software, but lacks a convincing justification for this decision. The AI software solves part of the proposed problem. However, there are some critical errors in the implementation and design of the software.	The report discusses an appropriate software framework to implement the AI-based software and clearly justifies the decision. The AI software solves the proposed problem but there are some non-critical errors in the design and implementation of the software.	The report presents the most appropriate framework for developing the AI-based software and gives a very good justification. The AI software solves the proposed problem and the software does not contain any significant error in the design and implementation, which are both very appropriate.
Weighting	The criteria for this assessment are weighted as indicated above.			