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| **ELECTRONIC ASSIGNMENT COVERSHEET** | Murdoch_land_RGB |

**Kaplan Singapore**

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| Student Number |  |
| Surname |  |
| Given name |  |
| Email |  |
|  |  |
| Unit Code |  |
| Unit name | ICT206 Intelligent Systems |
| Enrolment mode |  |
| Date |  |
| Assignment number | 2 |
| Assignment name | Project |
| Tutor |  |

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| **Student’s Declaration:**   * Except where indicated, the work I am submitting in this assignment is my own work and has not been submitted for assessment in another unit. * This submission complies with Murdoch University's academic integrity commitments. I am aware that information about plagiarism and associated penalties can be found at http://www.murdoch.edu.au/teach/plagiarism/. If I have any doubts or queries about this, I am further aware that I can contact my Unit Coordinator prior to submitting the assignment. * I acknowledge that the assessor of this assignment may, for the purpose of assessing this assignment:   + reproduce this assignment and provide a copy to another academic staff member; and/or   + submit a copy of this assignment to a plagiarism-checking service. This web-based service may retain a copy of this work for the sole purpose of subsequent plagiarism checking, but has a legal agreement with the University that it will not share or reproduce it in any form. * I have retained a copy of this assignment. |
| I am aware that I am making this declaration by submitting this document electronically and by using my Murdoch ID and password it is deemed equivalent to executing this declaration with my written signature.  Signed    (Write your name in the space above) | |

**Title**

**Introduction**

*With expert systems, these should be quite specific (respitory diseases in cats, or fault-finding in 1990s Fiat cars). You should describe this clearly, perhaps using a scenario or examples question-and-answers. Be clear about what inputs you expect from the user, and what outputs the system must produce. Make sure you state at least one specific goal for your system, as clearly as possible. That is, it must be possible to see if the system has failed to meet the goal.*

**Background**

*Describe what prior experiments have been done on such a problem. Find some relevant papers using Google Scholar, or your library. Put the results of your reading to work. Use IEEE citations (numbers in square brackets) for all whose work you describe - corresponding to the list of references at the end. Briefly critique these works how well the worked and say what we learn from each.*

**AI Method and Tools**

*Give details of the process you actually used to create the rules for your system. Describe the expert system tool you used. When necessary, give citations for the sources or research papers for these. Credit any other authors who were involved, and make sure to be clear about what is your work. Provide any results or listings that will not fit into the six-page limit in the Appendix.*

**Evaluation Method**

*Explain how you evaluated your system. Explain in detail the measurements or observations you used. Outline any practical difficulties you encountered; if you are not actually able to carry out your evaluation (for example, because you had no ethics permit to collect data from human participants), say how it should have been done, in detail.*

**Results**

*Give the results obtained from your experiments. If a classification task, for example, show how many of a test set were correctly classified, while if it was an optimisation method, show your optimal measure and compare with a theoretical ideal optimum. If a learning method, you should also include some indication of how quickly, and how well your system learned. Typically, this takes the form of a graph with some measure of learning quality on the y-axis and time or learning epochs on the x-axis. Make sure you clearly label all graphs and tables, and provide a caption for each. For some applications like games, it may be easier to show the results in the form of pictures (do screen captures - eg using PrntScrn - and insert them as with captions “Figure 1. User interface for the expert system”, etc. so that you can refer to them in the text)*

gv_figure_4

Fig. 1. A sample line graph using colours which contrast well   
 both on screen and on a black-and-white hardcopy

**Conclusion**

*Interpret the results for the reader. How can we understand what has happened? Was the goal reached, and to what degree? Was the outcome what you expected? What have you learned by doing the experiment? What went well, and what went poorly? What could be done to improve the performance of the method in future? What is your conclusion?*

**Acknowledgements** (if needed)

*If you are given help or use code taken from some source, acknowledge these here. If you modify code obtained from the Internet, remember to observe the copyrights of the code obtained, and make proper reference to the author.*

**References**

*It is important to provide appropriate references for the materials you have used. Use the IEEE style and try to avoid anonymous, random websites if possible. If you are not sure how to cite references, see* [*http://libguides.murdoch.edu.au/IEEE*](http://libguides.murdoch.edu.au/IEEE)

**Appendix** (if needed)

*One or more of these giving extra data, results, code listings etc. which is too long to go inside the report. (Does not count toward your six page limit.)*

**User Guide**

*Brief but detailed instructions on how to run and/or use the program. It should be clear enough for you to re-generate your results to verify your report. Do not expect your tutor to install very large or complex programs to run your code – there will not be time. If it will need that, arrange to demonstrate the working code on your own machine during the Week 12 or 13 labs. (Usually just a few lines. You can put all this the appendix – it does not count toward your six page limit.)*

Make sure your work is properly checked for grammar and spelling before submitting. Submit one file (this filled-in Word template) by the due date via the ICT206 unit website. **Students are warned about taking material from the Web without proper acknowledgment, which is considered misconduct.**

The submission will be marked using the following rubric:

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| --- | --- | --- | --- | --- | --- |
| CATEGORY | **4** | **3** | **2** | **1** | **0** |
| **On Time/Late**  **Without Extension** | On time  0 marks | 1-2 days late  -1 marks | 3-4 days late  -2 marks | * 1. days late   -3 marks | 7 or more days late  -4 marks |
| **Presentation**  **(coversheet, diagrams, captions, references in IEEE format, clarity and style)** | Very good  +4 marks | Good  +3 marks | Acceptable  +2 marks | Poor  +1 mark | Very Poor  0 marks |
| **Description**  **(problem, background research and goal)** | Very good  +4 marks | Good  +3 marks | Acceptable  +2 marks | Poor  +1 marks | Very Poor  0 marks |
| **Solution & Implementation**  **(good solution, good use of tools and resources)** | Very Good  +4 marks | Good  +3 marks | Acceptable  +2 marks | Poor  +1 mark | Very Poor  0 marks |
| **Performance of Solution**  **(solution runs according to design, goals reached)** | Very Good  +4 marks | Good  +3 marks | Acceptable  +2 marks | Poor  +1 mark | Very Poor  0 marks |
| **Evaluation & Conclusion**  **(quality of evaluation, conclusion)** | Very Good  +4 marks | Good  +3 marks | Acceptable  +2 marks | Poor  +1 mark | Very poor  0 marks |

**Tutor’s Comments**