Project proposal: a concise guide

CIS 667: Introduction to Artificial Intelligence

I. The proposal

Your project proposal should contains the following:

1. Title of the project

2. An introduction

   The introduction should state, in clear terms, the following:

   (a) The subject area within Artificial Intelligence

   (b) The problem within the subject area you will focus on

3. Aim of the project

   It is a short but precise description of what you intend to do.

4. Objectives

   This is a list of items to show unambiguously what you intend to achieve the aim of the project.

5. The information each member of your team

   Please make sure that you include, for each member,

   (a) Your SU's email address

   (b) Your phone number (if desired)

   in the proposal document.

6. An initial work plan (for team project only)

   Give an initial work plan for your team.

7. Work plan for the project. In particular, state the role each member of your team will play in the project. Give a concise outline of the work each member will perform separately and the work all the members will work on together.

8. Reference

   At the end of the proposal, itemize the list of references you plan to use for the project. Please follow the usual standard when preparing the reference list. I recommend that you use the reference in your texts as a guideline.

II. Suggestions

The following are a list of suggestions that you may find it helpful when you prepare for this proposal.

1. Identify the natural of your project

   Most of the undergraduate projects will fall into one of the following categories:

   (a) A descriptive project

   While your project may include a report of a summary of all the literature you have collected, please make sure that you have provide an original exposition with your personal input (eg. a critique, a detailed analysis or an assessment) to meet the aim(s) of your project.

   (b) A theory oriented project

   At an undergraduate level, it typically include a sound existing theoretical model and a possible extensions where evidence (not necessarily proofs) are shown to support the extended model(s) presented.

   (c) A comparison study

   This usually include a review of multiple approaches to achieve the aim(s) of the project. The project will state a clear comparison criteria and provide an assessment (with respect to the comparison criteria identified) to each of approaches under investigation and the results.

   (d) An applied project

   In an applied project, the aim is to gain experience from learning and applying a known method to a realistic situation. It will usually include applying the method(s) to a list of examples (from a realistic situation), analyzing and summarizing the experiences and identify refinements.

2. A checklist for the project

   Please may attention to the following checklist, ask the questions listed below, give adequate answers and seek to fulfill them when writing your project.

   (a) Proper language:

   Is the wording of the project proposal clear and concise ?

   (b) Mandatory information:

   Does the project proposal contains the required information ?

(c) Quality assurance:

Did you discuss the project idea with your instructor and re-examine your ideas after getting the feedback ?

(d) Skill and resources:

Do you have the necessary background and resources to complete the project in the proposed area ?