

CS 335-01 - Artificial Intelligence Research Project II

Objective: To identify a domain of interest and design an AI system that will suit its needs.

Description: A project will consist of an extended abstract (4 to 10 pages) covering the following aspects of your AI System:

- Selected Domain - Area of Expertise
- Proposal for the System
- Research Background
- System Learning Engine / Type of System
- Project Development Cycle
- Training Set
- Implementation Assessment: snapshots, timeline, resources

Format: Each project should include

- An introduction to the domain. Preferrably a 'white paper' being the main source for your knowledge base
- A paragraph or two explaining the need for the system and the benefits the system will bring
- A brief description of similar system that are currently in use, similar projects applied to other domains, and/or old implementations that are not in use at this time.
- Detail description of the Learning Engine. This should include the method selected (ANN, EC: GA/ES/GP), and the way your system will implement that method to "learn".
- A proposal for the development of the system. This proposal should clearly address design, development, and implementation issues.
- Example of a training set with some instances of the training process.
- Snapshots of the user interface, development timeline and resources needed.
- (Extra Credit) A PowerPoint or Web presentation of the system.

Due Date: Projects will be due on Tuesday, December 7th. No extensions will be granted.