Collaborative Filtering Example

- Write done 2-5 unique numbers between 1 and 9
- Pick a number
- Find all people who wrote down that number
- Find most frequent number among those people

Past Project ideas
- inverted pendulum using fuzzy logic (+ demo)
- predicting stock price (don't do it)
- crossword puzzle generation via GA
- steady cam algorithm
- image correction (peacock logo removal)
- information fusion for machining (data from Kai)
- case based reasoning: music, wine, new and used car recommend
- character recognition via NN
- email handling system for NL
- Game Player - Magic like game

Project Ideas from the book
- Jang chapter 21 GA to play Othello
- Jang chapter 22 Implement the color matching neuro-fuzzy system
Other Recommendation applications:

- Select movie to watch
- Select new/used car to buy
- Select wine for a meal

http://dent.infolab.nwu.edu/infolab/projects/projectmain.asp

Academic Demonstrators (Watson 3.3):

Diagnosis
- Hearing disorders
- Heart Failure
- Operating system errors
- Architectural defects

Planning
- Battle planning
- Medical treatments
- Manufacturing planning
- Legal Reasoning
- Analogous Reasoning
- Arbitration
- Adaptation
- Tutoring

Industrial Applications of CBR (Watson Chapter 4)
Interesting web sites:

Cyc: Cycorp, Inc, is the leading supplier of formalized common sense. The knowledge base is built upon a core of over 1,000,000 hand-entered assertions (or “rules”)
http://www.cyc.com/overview.html

Robocup: By the year 2050. Develop a team of fully autonomous humanoid robots that can win against the human world soccer champions.
http://www.robocup.org/
http://www-2.cs.cmu.edu/~robocup2001/