Final Year Project Ideas

The following two projects are suitable for CA or EC students who enjoy programming.

Twitter Sentiment Analysis Annotation Tool

Sentiment Analysis or Opinion Mining is the automated analysis of opinion expressed in unstructured or semi-structured text such as consumer reviews, tweets and blogs. Sentiment Analysis systems typically involve machine learning and are trained on labelled data in the form of phrases, sentences, paragraphs or documents which people have annotated with information about sentiment towards a particular topic. Thus, an accurate sentiment analysis system relies on the availability of sufficient quantities of labelled data. The aim of this project is to create a web-based Twitter annotation tool which will allow people to annotate tweets for sentiment. The tool will be used by researchers in the Centre for Next Generation Localisation (www.cnng.ie). For more information on sentiment analysis research carried out in the CNGL, please read the following paper: http://www.aclweb.org/anthology/S/S14/S14-2.pdf#page=243

WhichPrep Mobile Application

One of the areas which causes most difficulty for learners of English as a second language is choosing the correct preposition (e.g. in, out, over, under, about, from, to, with, on, between) for a given context. This is because the rules for English prepositional usage are not well-defined and the choice of preposition often relies not on literal meaning but on knowledge of language idioms. For example, beginner learners of English may find it difficult to choose between in, at and on in the following sentences:

- He will see them __ October.
- He will see them __ the 3rd of October.
- He will arrive __ the airport.

Design and develop a mobile application which allows learners of English to test their prepositional usage skills using interesting real-word texts. The app should work flawlessly, be elegantly designed, focus only on prepositions AND be fun to use.