

Capstone project ideas

Idea 1

A film recommendation engine targeted to the individual. I want to find films for people that will: inspire them, challenge their view of the world, make them think and make them feel – ‘Life Altering Films’ (LAF).

Many who seek LAFs typically suffer a few pitfalls:

1. Spend a lot of time searching through film websites, film databases, review sites, recommendation sites, and watching trailers.
2. Even with the most rigorous search and recommendation tools available, they often come back with a list of films to watch, the vast majority of which are not LAFs, and sometimes, not even ‘good’ at all.
3. Given the barriers to finding LAFs, it is likely many miss the opportunity to watch these LAFs. This is detrimental to both the filmmakers and the population – the filmmaker cannot spread their message, and the user is less likely to challenge their view of the world.

The data would come from Internet Movie Database and MovieLens databases.

Idea 2

Predicting Brownlow Medal winner (the year’s best player) for the Australian Football League. There are a lot of stats recorded on AFL players. Many of these are considered contributing factors to rating the best players. Some examples include: kicks, marks, handballs, contested possessions, number of games won, positions on field, number games played, tackles, clearances, kicks to forward-line, kicks to back-line, kicking accuracy etc. This research could be continued into trying to understand what makes players great, for different areas of the field, and how this contributes to the number of games a team wins. For example a player in the forward line, would need to have a high level of accuracy on goals. The data would come from AFL statistics.

Idea 3

Analysing users clicks and keyboard presses from websites to determine user behavior. The aim is to try to know what they are likely to buy. If it is known what they are likely to buy, you can target your marketing campaign to that user. This can be achieved from using publicly available datasets (e.g. Click Dataset), or company datasets. The data could also be extracted from Google Analytics.