**COMP 316 – NLP PROJECT PROPOSAL**

**SONG GENERATION**

**Objectives:**

From a corpus of song lyrics, use NLP techniques to formulate a new song and evaluate the result and performance of the system.

**Requirements:**

* A corpus of songs and predefined song subjects, in order to limit the scope of the project.
* The system must be able to extract individual lines from the corpus which are related to the chosen subject of the song using synonyms and hypernyms where appropriate.
* The end result should ideally make sense i.e. lines should preferably not be chosen where they are a continuation of a sentence rather than the beginning of one, hypernyms should be appropriate etc.
* The song should follow some predefined structure e.g. Intro, Verse, Chorus (Refrain), Hook, Bridge, Break & Outro or similar.
* The song should make an attempt to rhyme where possible. Rhyming words will be identified using an external database and a qualification system rather than speech processing and phonetics.
* An evaluation function is required to evaluate the success of the outcome.

**Time Frame:**

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| **Task** | **Description** | **Completion Date** |
| Synonyms, Hypernyms, Rhyming Words | Acquire these words from a library/database | Completed |
| Word selection | Determine criteria | 11/03 |
| Build Corpus | Decide on subjects, how corpus is stored and accessed | 16/03 |
| Define structure | Structure of songs, compilation algorithms | 30/03 |
| Evaluation function | Algorithms to determine success/failure of the result | 13/04 |
| Finalize coding | - | 27/04 |
| Oral presentation | - | 04/05 |