Project Proposal

# Team members

* Akash Patel
* Christoph Kaiser
* Lisa Schmitz
* Nikolaos Tatarakis

Project Topic

Text Analyser

Specific Problem Formulation

The text analyser we are going to develop should be able to classify texts according to their transferred emotion. In a first step the analyser should be able to put song lyrics in a certain mood category. In an additional step the text analyser should be applicable to other kinds of texts such as poems.

The task of identifying emotions is of deep interest to many researchers. It cannot only support research in other fields like human computer interaction and computer linguistic, but can also be useful for market analyses or educational games [Strapparava, C., & Mihalcea, R. (2008, March). Learning to identify emotions in text. In *Proceedings of the 2008 ACM symposium on Applied computing* (pp. 1556-1560). ACM.].

# Project timeline

|  |  |  |  |
| --- | --- | --- | --- |
| **When** | **Who** | **What** | **Time spent** |
| Week 39 | Akash and Lisa | Find datasets, do research on different kinds of dataset | 12h |
| Chris and Lisa | Find and compare libraries for feature extraction | 12h |
| Niko and Chris | Find classifier libraries | 12h |
| Akash and Niko | Create code skeleton (interfaces) | 16h |
| Week 40 | Niko and Chris | Define Tests | 12h |
| Akash and Chris | Construct a dictionary | 16h |
| Niko and Lisa | Implement bag of word | 16h |
| Akash and Lisa | Integrate all components | 16h |
| **Milestone:** Implemented a Prototype | | | |
| Week 41 | Akash and Niko | Benchmarking | 8h |
| Akash and Lisa | Test different datasets | 16h |
| Niko and Chris | Compare classifiers | 16h |
| Chris and Lisa | Compare feature extraction | 16h |
| Week 42 | Akash and Niko and Lisa and Chris | Refactoring and optimization | 32h |
|  | Backup Time | 24h |
| **Sum** |  |  | 224h |

# Project setup sketch

<Insert Picture Niko>