

## Seminar Report Documentation

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Report Title: Semantic and Sentimental Analysis using NLP.

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### **Abstract:**

With the increase in data, there is a need to understand the correct and relevant meaning of the data and understand the underlying hidden sentiments which come out of it. Semantic word spaces have been very useful and can express the meaning of longer phrases in a principled way. Further progress towards understanding compositionality in tasks such as sentiment detection requires richer supervised training and evaluation resources and more powerful models of composition. To capture the effects of negation and its scope at various tree levels for both positive and negative phrases is a hot and trending topic of the 21<sup>st</sup> century.

Natural Language Processing is a technique which can be used to do accurate analysis of data and its underlying hidden sentiments and is widely used. Although getting 100% accuracy is next to impossible, but scientists have made a progress of achieving a fair amount of high accuracy.

With the help of accurate data, it is much easier to do actual and accurate analysis of data which can be further used by the experts to derive much more concrete results.