1 Conclusion

The textual content of social media posts, in particular tweets; contain a rich source of polarised opinion that can be utilized in the Sentiment Analysis of a domain area. This dissertation has combined the method of Sentiment Analysis with tweets posted in real-time on Twitter to validate that we can indeed 'implement an autonomous system to extract and visualise public sentiment from Tweets within sufficient real time'. Using the case study of the Twitter debate on "Britain leaving the European Union" the System has collected, analysed and visualized the sentiment of individuals within real-time. Improving on previous Systems, the utilization of Machine Learning techniques through the implementation of deep-learning models in this System has shown that deep-learning can be used in the determination of a users' sentiment within a tweet and the classification of tweets using this method can be accomplished within real-time. The enclosed work within this dissertation highlights the design, implementation and issues around the development of a real-time Sentiment extraction System and can thus be used as a reference point for future Systems of this class.