School of Computing 

COMP5200M Project Specification

***NOTE to student****: ensure you have discussed the content with the supervisor. Submit an* ***electronic version*** *of this form in pdf via the COMP5200M module page on Minerva; with filename of the format <surname><year>-Spec ( e.g. SMITH17-Spec.pdf).*

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| **Student Name: Jiayang Xi** |
| **Programme of Study: Text Classification and Sentiment Analysis** |
| **Supervisor Name: Dr. John Stell** |
| **Name of External Company** (if any)**:** |
| **Type of Project: research** |
| **Provisional Title of Project:**  Analysis of restaurant review dataset based on multiple methods |
| **Aim of Project:**  **Using Machine Learning Sentiment Classification Deep Learning Multiple Methods to Analyze Google Restaurant Dataset** |

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| **Objectives:** **Analyze the Google Restaurant Review Dataset to explore user sentiment and opinions.**  **Comprehensively use sentiment dictionary, machine learning and deep learning methods to realize multi-faceted analysis of review data.**  **Compare the performance and effectiveness of different analysis methods to find out which method works best in review analysis.** |
| **Deliverables:** **Implement concrete code for review analysis using sentiment dictionary, machine learning and deep learning methods.**  **Detailed recording and data validation of experimental results, as well as comparative analysis of experimental performance of different methods.**  **The concluding section summarizes the advantages and disadvantages of various methods, and looks forward to possible future applications and improvement directions in the field of review analysis.** |