**Chengdu University of Technology Oxford Brookes College**

**Project Module (CHC 6096)**

**Weekly Report Sheet**

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| STUDENT NAME: | James |
| STUDENT NUMBER: | 201918010413 |
| SUPERVISOR NAME: | Joojo Walker |
| DATE: | November 21 to November 27 |
| Briefly list all the main tasks you accomplished in the week.  Project progress: Attempted to use deep learning algorithms for predictive modelling and trained and tuned the model.  Data analysis and visualisation results: The Keras library in Python was used to build and train the deep learning model, and the learning curve and error distribution of the model were plotted using the matplotlib library. | |
| Briefly state all the challenges you encountered in the week.  Problems encountered: When training the deep learning model, the problem of gradient disappearance and gradient explosion was encountered and the model needed further optimisation. | |
| Briefly Plan out the agenda for next week.  Next steps: continue to optimise the deep learning model and experiment with other neural network algorithms. | |
| SUPERVISOR SIGNATURE: |  |