**Chengdu University of Technology Oxford Brookes College**

**Project Module (CHC 6096)**

**Weekly Report Sheet**

|  |  |
| --- | --- |
| STUDENT NAME: | Arnold |
| STUDENT NUMBER: | 201918020422 |
| SUPERVISOR NAME: | Joojo walker |
| DATE: | 2022/11/28-2022/12/4 |
| Briefly list all the main tasks you accomplished in the week.  I learned the DCN model, including how to implement it in a project.  (I find a sample from DeepCTR-Torch, and learn the different part of the model)  I write some basic layers of the model. | |
| Briefly state all the challenges you encountered in the week.  The challenge I met this week was to understand the model and use python to achieve the model goals. It was so hard to understand the model only based on the mathematic formulas, for instance the most important part of this model is the Cross Network, It is used to explicitly and efficiently learn cross-features. It consists of multiple Crossing Layers, each of which is represented by the equation:  =  After read the article, I can understand the meaning of the formula, but it is still difficult to me to convert the formula to the python code, so I need more time to concentrate on the sample code and some other code resources.  And another challenge is that some packages in the pycharm can not install successfully.  Like this: | |
| Briefly Plan out the agenda for next week.  Continuing work on the DCN model | |
| SUPERVISOR SIGNATURE: |  |