Weekly Report for BSc Project

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| Student RUG ID: | 2117538 |
| Student IIT ID: | 20210488 |
| Student name | KD NADUN SHAMIKA SENARATHNE |
| Course | BSc Artificial Intelligence and Data Science |
| Module | CM4605 - Individual Research |
| Project Topic |  |

To be submitted to the supervisor weekly, with the latest page on top. Upload to the drop box on the relevant module pages on Campus Moodle at the final submission time

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| Week commencing on  dd / mmm / yyyy | 13/06/2024 |
| Meeting with the supervisor | Yes |
| Initial discussion about the project idea and presenting the idea |
| Description of progress this week | How to scope down the project |
| Plan for next week | Scoping down the project and make a simple component diagram |
| Date of report | 13/06/2024 |
| Student Photo Signature |  |

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| Week commencing on  dd / mmm / yyyy | 20/06/2024 |
| Meeting with the supervisor | Yes |
| Discussing the narrowed down scope |
| Description of progress this week | Adjusting the scope with supervisor comments |
| Plan for next week | Scoping down the project and make a simple flow diagram |
| Date of report | 20/06/2024 |
| Student Photo Signature |  |

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| Week commencing on  dd / mmm / yyyy | 27/06/2024 |
| Meeting with the supervisor | Yes |
| Discussing the narrowed down scope |
| Description of progress this week | Adjusting the scope with supervisor comments |
| Plan for next week | Scoping down the project |
| Date of report | 27/06/2024 |
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| Week commencing on  dd / mmm / yyyy | 04/07/2024 |
| Meeting with the supervisor | Yes |
| Discussing the narrowed down scope |
| Description of progress this week | Adjusting the scope with supervisor comments and also creating a draft scope document |
| Plan for next week | Scope document |
| Date of report | 04/07/2024 |
| Student Photo Signature |  |

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| Week commencing on  dd / mmm / yyyy | 11/07/2024 |
| Meeting with the supervisor | Yes |
| Discussing the scope document |
| Description of progress this week | Adding the scope of the components and the features for the face model |
| Plan for next week | Updating the scope document with the requirement |
| Date of report | 11/07/2024 |
| Student Photo Signature |  |

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| Week commencing on  dd / mmm / yyyy | 18/07/2024 |
| Meeting with the supervisor | Yes |
| Discussing the scope document |
| Description of progress this week | Adding the scope of the components and the features for the novelty part hybrid spatio-temporal model |
| Plan for next week | Updating the scope document with the requirement |
| Date of report | 18/07/2024 |
| Student Photo Signature |  |

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| Week commencing on  dd / mmm / yyyy | 25/07/2024 |
| Meeting with the supervisor | Yes |
| Discussing the scope document |
| Description of progress this week | Making the 2 research questions for the 2 components |
| Plan for next week | Updating the scope document with the requirement |
| Date of report | 25/07/2024 |
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| Week commencing on  dd / mmm / yyyy | 08/08/2024 |
| Meeting with the supervisor | Yes |
| Discussing the scope document |
| Description of progress this week | The aim and objectives for the 2 research questions and Creating a project timeline |
| Plan for next week | Updating the scope document with the requirement |
| Date of report | 08/08/2024 |
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| Week commencing on  dd / mmm / yyyy | 22/08/2024 |
| Meeting with the supervisor | Yes |
| Discussing the scope document |
| Description of progress this week | Evaluating matrices for the gait model and stat component |
| Plan for next week | Updating the scope document with the requirement |
| Date of report | 22/08/2024 |
| Student Photo Signature |  |

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| Week commencing on  dd / mmm / yyyy | 29/08/2024 |
| Meeting with the supervisor | Yes |
| Discussing the face model implementation |
| Description of progress this week | Started implantation spatial component of the hybrid model |
| Plan for next week | Trying out different model architectures to make the spatial model |
| Date of report | 29/08/2024 |
| Student Photo Signature |  |

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| Week commencing on  dd / mmm / yyyy | 05/09/2024 |
| Meeting with the supervisor | Yes |
| Discussing the implementation of the spatial model and its limitations |
| Description of progress this week | Implantation of spatial component trying out from normal deep learning to vision transformers |
| Plan for next week | Trying out different model architectures to make the spatial model with the suggestions of the supervisor |
| Date of report | 05/09/2024 |
| Student Photo Signature |  |

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| Week commencing on  dd / mmm / yyyy | 12/09/2024 |
| Meeting with the supervisor | Yes |
| Discussing the implementation of the spatial model and its limitations |
| Description of progress this week | Chose restnet as the main architecture |
| Plan for next week | Trying out different model setups with ResNet50 model |
| Date of report | 12/09/2024 |
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| Week commencing on  dd / mmm / yyyy | 19/09/2024 |
| Meeting with the supervisor | Yes |
| Discussing the implementation of the spatial model and its limitations |
| Description of progress this week | Adding a novelty part where trying to improve the deep learning architectures with machine learning classifiers |
| Plan for next week | Trying out different machine learning classifiers to classify the features extracted from the ResNet model |
| Date of report | 19/09/2024 |
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| Week commencing on  dd / mmm / yyyy | 26/09/2024 |
| Meeting with the supervisor | Yes |
| Discussing the implementation of the spatial model and its limitations  Finishing up on the spatial model implementation |
| Description of progress this week | Adding a novelty part where trying to improve the deep learning architectures with machine learning classifiers  Finishing up on the spatial model implementation while fine tunning |
| Plan for next week | Trying out different machine learning classifiers to classify the features extracted from the ResNet model  Start the implementation of the temporal model |
| Date of report | 26/09/2024 |
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| Week commencing on  dd / mmm / yyyy | 25/09/2024 |
| Meeting with the supervisor | Yes |
| Finishing up on the spatial model implementation |
| Description of progress this week | Finishing up on the spatial model implementation while fine tunning |
| Plan for next week | Start the implementation of the temporal model |
| Date of report | 25/09/2024 |
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| Week commencing on  dd / mmm / yyyy | 02/10/2024 |
| Meeting with the supervisor | Yes |
| Temporal model implementation |
| Description of progress this week | Working on the temporal model implementation while fine tunning |
| Plan for next week | Finish 50% of the temporal model implementation |
| Date of report | 02/10/2024 |
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| Week commencing on  dd / mmm / yyyy | 07/10/2024 |
| Meeting with the supervisor | Yes |
| Temporal model implementation |
| Description of progress this week | Working on the temporal model implementation while fine tunning |
| Plan for next week | Start making the stat data to be able to query from a DB |
| Date of report | 07/10/2024 |
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| Week commencing on  dd / mmm / yyyy | 14/10/2024 |
| Meeting with the supervisor | Yes |
| Temporal model implementation parallelly with stat genaration |
| Description of progress this week | Setting up the DB |
| Plan for next week | Start making the stat data to be able to query from a DB and also reduce overfitting of the temporal model |
| Date of report | 14/10/2024 |
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| Week commencing on  dd / mmm / yyyy | 21/10/2024 |
| Meeting with the supervisor | Yes |
| Drafting the literature review document and the stat generation system with open ai 4o api |
| Description of progress this week | Implementation of the stat generation system |
| Plan for next week | Finishing up on the LR draft and the full integration of the models |
| Date of report | 21/10/2024 |
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| Week commencing on  dd / mmm / yyyy | 28/10/2024 |
| Meeting with the supervisor | Yes |
| Getting the supervisor feedback on the LR |
| Description of progress this week | Documenting the LR and stat generation system implementation |
| Plan for next week | Finish up on the stat generation system with the openai api |
| Date of report | 28/10/2024 |
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| Week commencing on  dd / mmm / yyyy | 04/11/2024 |
| Meeting with the supervisor | Yes |
| Discussed to write and the structure the methodology |
| Description of progress this week | Implemented chat gpt 4o api for the stat generation system and submitted LR |
| Plan for next week | Start the methodology document |
| Date of report | 04/11/2024 |
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| Week commencing on  dd / mmm / yyyy | 11/11/2024 |
| Meeting with the supervisor | Yes |
| Got advice on the paper structure changes |
| Description of progress this week | Writing the methodology and the conference paper with the paper structure |
| Plan for next week | Writing according to the changed structure  Finish up on the methodology and the SPER document |
| Date of report | 11/11/2024 |
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| Week commencing on  dd / mmm / yyyy | 25/11/2024 |
| Meeting with the supervisor | Yes |
| Got advice on some structural changes to the conference paper  And how to do the dataset evaluation |
| Description of progress this week | Finished the methodology chapter and writing up the conference paper |
| Plan for next week | Do the novel dataset evaluation/validation through LLM evaluation |
| Date of report | 25/11/2024 |
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