Student’s Responsibility

It is the student’s responsibility to take notes of the meeting and forward them to the supervisor in a timely manner.

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| **Student:** | Ultan Kearns | **Supervisor:** | Dr. Paul Greaney |

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| **Programme:** | Computing in Big Data Analytics and Artificial Intelligence |
| **Date:** | 2023-02-28 |

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| **Key Points Discussed (must include timetable for research and training record):** |
| Discussed transfer learning CNN models implemented - Xception, ResNet50V2, EfficientNetV2S all  using imagenet weights  Discussed progress on GANs - both pneumonia and COVID-19 GANs producing passible results, still need to implement Variational autoencoders and research one more GAN architecture to implement  Discussed limitations in datasets for X-Ray Covid 19 and Chest X-Ray - issues training GANs on these sets as they do not have enough data  Discussed adding the extensive COVID-19 dataset to the project  Discussed progress on implementation section of thesis  Seperating both CNNs and GANs into separate notebooks - found notebooks were too long when all were included in only one CNN and one GAN notebook. Also makes it more readable for other researchers |

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| **Action items for Student:** |
| Research one more GAN architecture to implement into the project - cyclegan, stylegan etc.  Work on improving CNN models and transfer learning models also detail in thesis  Work on VAEs for radiography and extensive covid 19 dataset - given these are the most likely to be able to train given the amount of data in each set  Proof-read implementation section of thesis |

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| **Action items for Supervisor:** |
| Review thesis once proof-read. |

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| **Date of next meeting:** | 2023-03-14 |

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| **Issues requiring immediate attention:** |
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