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| cid:image001.jpg@01D3E1F2.B4A565F0 | Supervision Meeting Notes  |  |  |  |  | | --- | --- | --- | --- | | Taught |  | Research |  | |

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| Student Name | Marios Anastasopoulos | | | | | |
| Student Number | 399980 | | | | | |
| Course | MSc Astronautics and Space Engineering | | | | | |
| Supervisor | Dr. Nicola Garzaniti | | | | | |
| Date of Meeting | 09/6/2023 | | | | | |
| Meeting by | In person |  | Telephone |  | Skype / Webconferencing |  |

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| Decisions / Actions agreed and by whom |
| Subject: Status check  Venue: MS Team  Participants Dr Nicola Garzaniti (CRA)  Mr Marios Anastasopoulos (CRA)  Reviewed the results of models and the hyperparameter optimization.  Also discussed the comments and the advice given by Dr.Catania.  He suggested cross validation to eliminate any bias in the data and also commented that the validation losses should be higher than the training losses. Moreover, he recommended to plot not only the losses, but also the metrics because it is more indicative of the progress of a model throughout the epochs of training.  Another suggestion made by Dr.Catania and Dr.Garzaniti is that since the data from reaction wheels follows a more complex pattern, maybe more layers in the model are needed, in order to forecast the values more accurately.  *Actions for the next meeting*   * Add the metrics to the plot of the training and validation losses * Experiment with the hyperparameter optimization to get results that have the validation losses higher than the training losses * Experiment with different architectures within the AI model, add more layers |
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| Date of next meeting |
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| 15/6/2023 |