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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Student Name | Marios Anastasopoulos | | | | | |
| Student Number | 399980 | | | | | |
| Course | MSc Astronautics and Space Engineering | | | | | |
| Supervisor | Dr. Nicola Garzaniti | | | | | |
| Date of Meeting | 26/5/2023 | | | | | |
| Meeting by | In person |  | Telephone |  | Skype / Webconferencing |  |

|  |
| --- |
| 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 the FFT on the data and the periodicities detected. Need to ask at Hellas Sat and discuss with them also about the results.  Reviewed the code developed to split the data into train, validation and test sets. Also resolved the issue with the code on the LSTM model creation and execution. Optimization of hyperparameters is suggested to find the best combination of LSTM and Dense layers, epochs needed, learning rate etc. Adam and relu are fine to use.  No need to normalize the data, since its timeseries, but I should convert the values to absolutes, because relu is not “happy” with negative values.  If I normalize it should be relevant to the maximum and minimum values so that it gets on a scale from -1 to 1 and the use tanh and not relu.  I should have some good results within the next weeks.  *Actions for the next meeting*   * Visit Hellas Sat for more data and to discuss about the periodicity * Convert the values to absolutes and re-iterate to get some results * Try the optimization of hyperparameters * Set up a meeting with Dr Miguel Arana-Catania to ask about the AI |
|  |

|  |
| --- |
| Date of next meeting |
|  |
| 2/6/2023 |