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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 | 12/5/2023 | | | | | |
| 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 first data analysis and representation. Object oriented structure is achieved, so I should keep on developing this way.  Discussed on different deep learning architectures. I should use Recurrent Neural Network (RNN) for timeseries forecasting. Convolutional Neural Network is mostly used for image processing.  Two possible methods are Long Short-Term Memory (LTSM), has been used for years, and Transformers, quite new so less literature available, but powerful.  Data will need to be broken down to training set and test and validation sets.  If data with better time resolution is needed, I can ask Hellas Sat to provide them.  I should start writing a first draft of the thesis.  *Actions for the next meeting*   * Detect periodicities in the dataset, first approach using Fourier transformation * Literature review on Recurrent Neural Network and Transformers |
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| Date of next meeting |
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| 19/5/2023 |