**Minutes   
Machine Learning Model Development  
Meeting No. 10**

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| **Location** | Swinburne Hawthorn Campus  The Node, Upstairs | | | | |
| **Date & Time** | Friday, September 20, 2024 3:30pm | | | | |
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| **Contributors** | Henry Richardson Matthew CrossSeth Kalantzis | | | *Meeting Facilitator Secretary* | |
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| **Action Items from Previous Meeting** | | | | | |
| **Item** | | **Discussion Points** | | | |
| **Pre-Process Assigned Dataset**  ***Owner:*** *All*  ***Status:*** *In-Progress* | | * Attempts made by all to pre-process. Matthew had made good progress on Air Quality data, Henry and Seth had made good progress on Health Stat Data. | | | |
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| **New Items** | | | | | |
| **Item** | | **Discussion Points** | | | |
| **Issue Merging Air Quality and Health Data**  ***Owner:*** *Matthew*  ***Status:*** *Completed* | | * Identified while pre-processing that the Local Health Districts in the Health Stat data and the Air Quality Collection Sites in the Air Quality Data were hard to map to one another. * Unable to identify a source online which provided a list of the suburbs within each local health district. We were, however, able to identify a Google Map which highlighted the specific regions that Local Health Districts covered. * Matthew created a secondary Google Map file, building upon the first, which dropped pins for each Air Quality Collection site within the relevant Local Health District. This data was exported and is being used as an additional dataset to merge the data the team currently has. | | | |
| **Division of Machine Learning Tasks**  ***Owner:*** *Henry*  ***Status:*** *Completed* | | * Data was now processed sufficiently to allow the team to begin implementing the machine learning models which they had been researching and building. Decision was made to distribute models based on the areas which the team had researched the most extensively. * Henry to complete linear regression models and analysis. * Seth to complete classification models and analysis. * Matthew to complete clustering models and analysis. | | | |
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| **Action Items** | | | | | |
| **Action Item** | | | **Owner** | | **Deadline** |
| * **Continue to pre-process data** | | | *Matthew* | | *Sept 24, 2024* |
| * **Complete the regression model** | | | *Henry* | | *Sept 27, 2024* |
| * **Complete the classification model** | | | *Seth* | | *Sept 27, 2024* |
| * **Complete the clustering model** | | | *Matthew* | | *Sept 27, 2024* |
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| **Next Meeting** | | | | | |
| **Location** | Swinburne Hawthorn Campus Room EN401 | | | | | |
| **Date & Time** | Tuesday, September 24, 2024 8:30am | | | | | |



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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Henry Richardson  *Meeting Facilitator* | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Matthew Cross  *Secretary* | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Seth Kalantzis  *Attendee* |