

## Weekly Consultation Meeting Log

Week	Summary of the Work Done During the Week (e.g., papers read, experiments/simulations conducted)	Planned Project Activities for the Next Week (e.g., papers/books to read, experiments/ simulation to be conducted)	Date
4	<ul style="list-style-type: none"> <li>Researched FAIMS application (read papers, publications, documentation, repository),</li> <li>Looked at applications of Machine Learning (read papers, general research)</li> <li>Initial exploration of Machine Learning models for mobile applications (read papers, general research)</li> </ul>	<ul style="list-style-type: none"> <li>Begin looking at how to train an ML model to classify images (read papers, general research)</li> <li>Research on tensorflow lite or any other alternate mobile ML library</li> <li>Look at options for implementation of mobile ML an then evaluate them</li> <li>Research into how a pre-trained ML model can be adapted to the project</li> </ul>	15/08/2022
5	<ul style="list-style-type: none"> <li>Researched on how to train a ML model for image classification (gathered academic resources i.e. read papers, general research)</li> <li>Researched techniques for image classification, looked into question of how accurate the model will be</li> <li>Initial research of adapting a pre-trained model for our problem</li> <li>Initial research of options for mobile ML implementation</li> <li>Experimented with training a tensorflow model with a flower data set for image classification</li> </ul>	<ul style="list-style-type: none"> <li>Further exploration of ML models that can implemented on a mobile device</li> <li>Build up a collection of image classification sets relevant to the project</li> <li>Consider important questions relevant to the project</li> <li>Continue playing around with demo implementations</li> <li>Finding the ideal data set for our problem</li> <li>Clarify the problem statement</li> </ul>	24/08/2022 26/08/2022
6	<ul style="list-style-type: none"> <li>Explored in depth options for implementation of ML models into the FAIMS application (read papers, articles, general research)</li> <li>Worked out a potential general implementation plan</li> <li>Continued experimenting with potential models/ implementations</li> </ul>	<ul style="list-style-type: none"> <li>Need to determine whether implementing tensorflow lite into native ios and android codebases is more effective compared to implementing model via tensorflow.js and wrapping it using ionic capacitor to have it function on both ios/android</li> <li>Explore how implementing into FAIMS application will work</li> <li>Research into training the model in python or can it be done using tensorflow.js</li> <li>Academic papers/ books on image classification – specifically on mobile devices – how much training data to get/ will need?</li> </ul>	02/09/2022
7	<ul style="list-style-type: none"> <li>Read papers</li> <li>Researched implementation</li> </ul>	<ul style="list-style-type: none"> <li>Read papers</li> <li>Researched implementation</li> <li>Scope out tools needed</li> <li>Scope out workflow</li> </ul>	09/09/2022
8	<ul style="list-style-type: none"> <li>Read papers</li> <li>Researched implementation</li> <li>Structured thesis</li> <li>Created demo</li> </ul>	<ul style="list-style-type: none"> <li>Read papers</li> <li>Researched implementation</li> <li>Write thesis introduction</li> <li>Structure thesis</li> </ul>	30/09/2022
9	<ul style="list-style-type: none"> <li>Read papers</li> <li>Researched implementation</li> <li>Structured thesis</li> <li>Finished introduction</li> <li>Began background/ literature review</li> </ul>	<ul style="list-style-type: none"> <li>Read papers</li> <li>Researched implementation</li> <li>Structure thesis</li> <li>Continue background/ literature review</li> </ul>	07/10/2022

10	<ul style="list-style-type: none"> <li>• Read papers</li> <li>• Researched implementation</li> <li>• Structured thesis</li> <li>• Continued background/ literature review</li> </ul>	<ul style="list-style-type: none"> <li>• Read papers</li> <li>• Researched implementation</li> <li>• Continue background/ literature review</li> </ul>	14/10/2022
11	<ul style="list-style-type: none"> <li>• Read papers</li> <li>• Researched implementation</li> <li>• Finished background/lit review</li> </ul>	<ul style="list-style-type: none"> <li>• Read papers</li> <li>• Researched implementation</li> <li>• Begin methodology</li> </ul>	21/10/2022
12	<ul style="list-style-type: none"> <li>• Finished methodology of paper</li> <li>• Reviewed background/lit review</li> <li>• Editing of paper</li> <li>• Made diagrams and tables for paper</li> </ul>	<ul style="list-style-type: none"> <li>• Begin the preliminary design chapter of the paper</li> <li>• Begin the project plan chapter of the paper</li> <li>• Finalised project work</li> </ul>	28/10/2022
13	<ul style="list-style-type: none"> <li>• Finished the preliminary design chapter of the paper</li> <li>• Finished the project plan of the paper</li> <li>• Finished Part A of Thesis</li> </ul>	<ul style="list-style-type: none"> <li>• Begin working on the project presentation</li> </ul>	04/11/2022

**Acknowledgement Statement:** I, Joshua Devine, confirm that the above meeting log represents an accurate summary of the meetings (e.g., video conferencing, face-to-face meetings, or email threads) held with my supervisor during the session.

**Student's Name:** Joshua Devine

**Student's Signature:**



**Date:** 04/11/2022

**Supervisor Signature:**