

TM470 Project Plan																																
Automating the Identification of UK Coarse Fish			Project Start:	28/01/2023																												
Robert Hunter X4545588			Display week:	21																												
				17/06/2023							24/06/2023							01/07/2023							08/07/2023							
				17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
TASK		START	DAYS	END	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F
Phase 1: ML model creation																																
Module reading		28/1/2023	7	3/2/2023																												
Background research and gather resources		4/2/2023	7	10/2/2023																												
Finalise scope of project, start TMA01, lifecycle and plan		11/2/2023	7	17/2/2023																												
TMA01		18/2/2023	11	28/2/2023																												
Assignment reflection, Finalise resources																																
- update plan to reflect chosen lifecycle/s		1/3/2023	7	7/3/2023																												
Install local ML environment and associated software																																
- look at TMA02																																
- install Anaconda																																
- install TensorFlow, Keras and Jupyter																																
- check GPU is being used and test performance		8/3/2023	14	21/3/2023																												
Data preparation																																
- look at datasets (resourced)																																
- separate UK coarse fish																																
- add other datasets if lacking																																
- create test and train datasets																																
- adjust images to suit purpose		22/3/2023	14	4/4/2023																												
Create model. Begin TMA02																																
- Begin TMA02																																
- research suitable CNN model architecture																																
- create basic CNN model		5/4/2023	14	18/4/2023																												
TMA02																																
- complete TMA02		19/4/2023	7	25/4/2023																												
Train model and evaluate																																
- parameter tuning																																
- feature extraction																																
- cross-validation		26/4/2023	21	16/5/2023																												
Phase 2: Integration into mobile app																																
Finalise model																																
- evaluation and predictions																																
- tidy code																																
- retest		17/5/2023	14	30/5/2023																												
Start work on TMA03		31/5/2023	14	13/6/2023																												
Research TensorFlow Lite		14/6/2023	7	20/6/2023																												
TMA03		21/6/2023	14	4/7/2023																												
Install app creation software environment.																																
- install Android Studio and relevant software																																
Create app.																																
- design wireframe UI																																
- create basic app template																																
- test functionality of app		5/7/2023	14	18/7/2023																												
Integrate model with app																																
- Convert model to TF Lite		19/7/2023	14	1/8/2023																												
Refine app																																