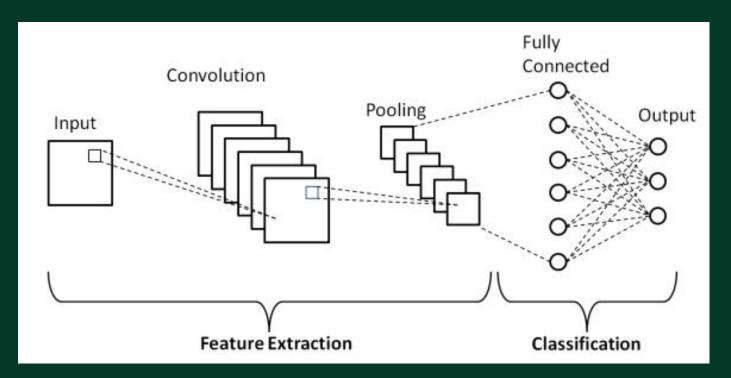
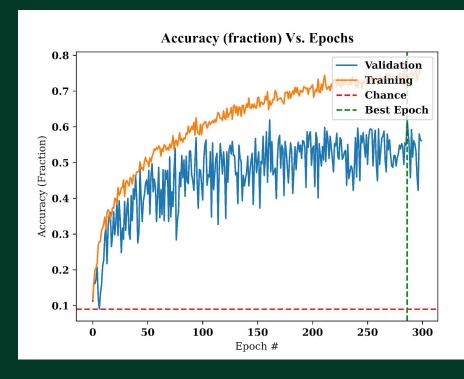


Convolutional Neural Network (CNN) architecture

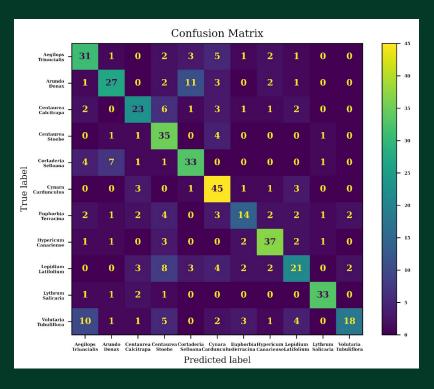




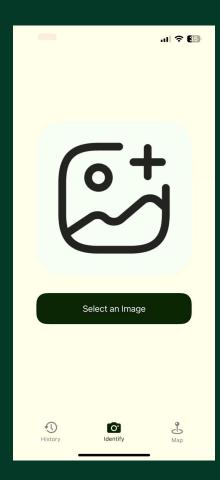
TRAIN LOSS	TEST LOSS	TRAIN ACCURACY	BEST TEST ACCURACY	epochs	batch size	learning rate	max pooling size	dropout rate	TOP 2 ACCURACY	TOP 3	TOP 4	TOP 5
2.525829	2.983036	0.761778	0.631470	300	16	0.001	4,4	0.3	0.801242236	0.8861283644	0.917184265	0.9378881988
2.481771	2.963338	0.784000	0.643892	300	16	0.001	4,4	0.3	0.8095238095	0.8923395445	0.9213250518	0.9523809524
2.576550	2.971427	0.740444	0.660455	300	16	0.001	4,4	0.3	0.7971014493	0.8633540373	0.9275362319	0.9440993789
2.610701	2.984417	0.752000	0.656315	300	16	0.001	4,4	0.3	0.7908902692	0.884057971	0.917184265	0.9399585921
1.138393	1.578381	0.720000	0.621118	300	16	0.001	4,4	0.3	0.7743271222	0.8633540373	0.9047619048	0.9192546584
1.03E-04	1.99124	1.0000	0.4741	50	64	0.0001	2,2	none	0.6997929607	0.7784679089	0.83436853	0.8861283644
1.094392	1.492212	0.728000	0.633540	300	16	0.001	4,4	0.3	0.784679089	0.8757763975	0.9275362319	0.9482401656
1.200617	1.744178	0.6783	0.553004	300	16	0.001	4,4	0.3	0.7137809187	0.8286219081	0.8833922261	0.9151943463
86.520218	87.220474	0.317906	0.263251	300	16	0.001	4,4	0.3	0.3109540636	0.4028268551	0.5053003534	0.6307420495



TRAIN LOSS	TEST LOSS	TRAIN ACCURACY	BEST TEST ACCURACY	epochs	batch size	learning rate	max pooling size	dropout rate	TOP 2 ACCURACY	TOP 3	TOP 4	TOP 5
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2.481771	2.963338	0.784000	0.643892	300	16	0.001	4,4	0.3	0.8095238095	0.8923395445	0.9213250518	0.9523809524
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1.03E-04	1.99124	1.0000	0.4741	50	64	0.0001	2,2	none	0.6997929607	0.7784679089	0.83436853	0.8861283644
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Video Demo







Testing our algorithm and removing invasive black mustard in the field!

Educational workshop for kids



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