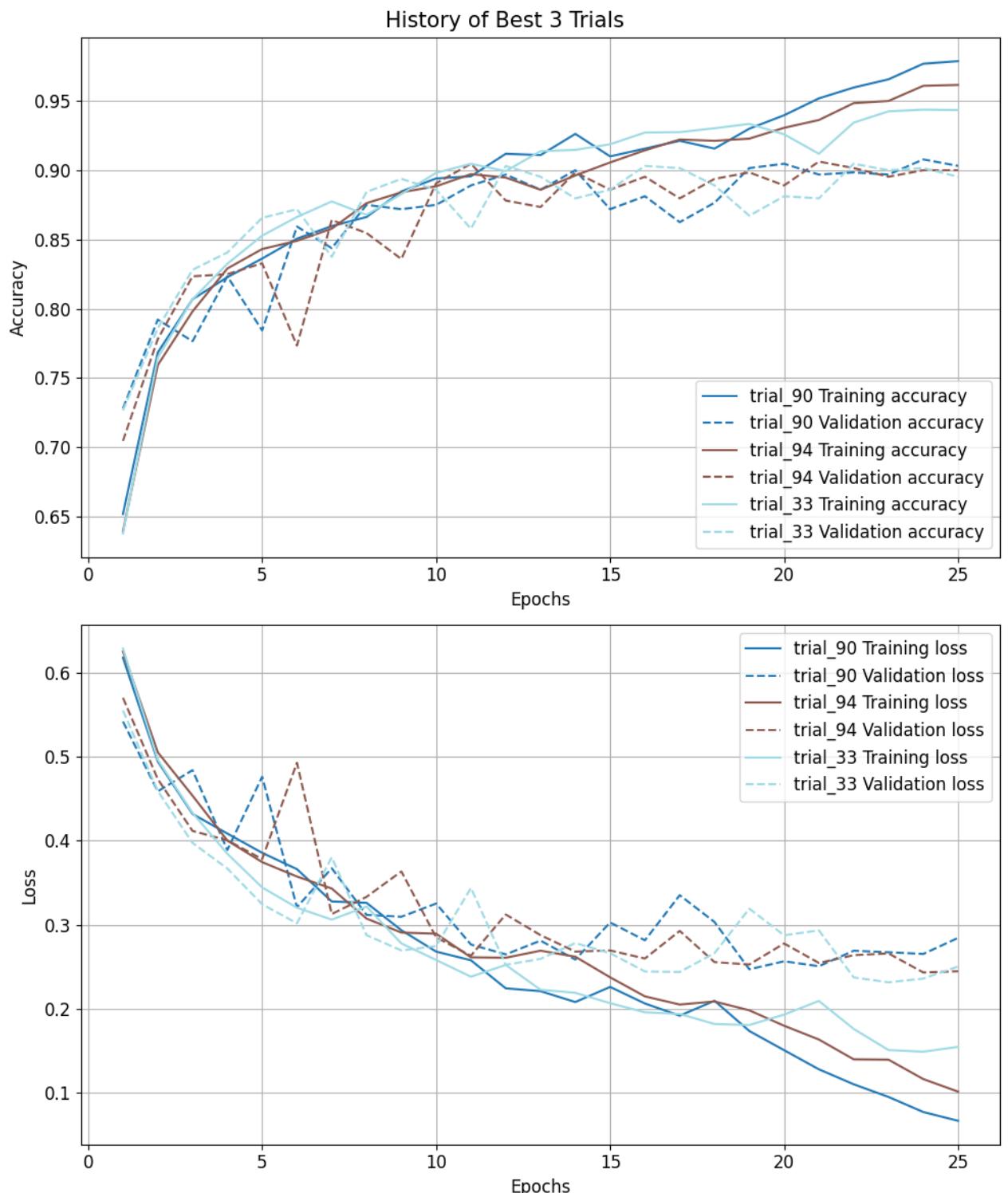


Experiment Report: Chihuahua vs Muffin Test Experiment

Metadata

- *Description:* In this experiment, a convolutional neural network with increased complexity and dropout is trained.
- *Start Time:* 2024-10-20 11:30:50
- *Last Resume Time:* 2024-10-20 11:37:59
- *Total Duration:* 0:51:15.588
- *Directory:* [Link](#)

Initial Visualizations



Summary

Hyperparameters

	units1	kernel_size1	units2	kernel_size2	dense_units	dropout_rate	learning_rate	Chapters
trial_90	128	5	64	7	128	0.1507	1.5730e-04	Chapter
trial_94	128	3	64	7	128	0.2049	1.3489e-04	Chapter
trial_33	128	3	64	5	128	0.1386	1.2009e-04	Chapter
trial_28	128	3	64	3	256	0.0943	1.6341e-04	Chapter
trial_83	128	3	64	7	512	0.1850	1.1528e-04	Chapter
trial_30	128	3	64	5	128	0.0796	1.2680e-04	Chapter
trial_35	128	3	64	7	128	0.1460	6.8260e-05	Chapter
trial_55	128	3	64	7	256	0.2646	1.0341e-04	Chapter
trial_82	128	3	64	7	128	0.2092	7.7721e-05	Chapter
trial_56	128	3	64	7	512	0.1594	7.6385e-05	Chapter
trial_64	128	3	16	5	128	0.1959	2.1726e-04	Chapter
trial_69	128	3	64	7	512	0.1766	4.2045e-05	Chapter
trial_75	64	3	64	7	128	0.0350	3.6182e-05	Chapter
trial_6	128	7	16	5	512	0.4480	8.1647e-05	Chapter
trial_42	128	3	64	7	128	0.1101	7.1873e-05	Chapter
trial_49	128	3	64	7	256	0.2283	4.9445e-05	Chapter
trial_86	128	3	64	5	256	0.0809	1.0668e-04	Chapter
trial_51	128	5	64	7	256	0.2759	2.7196e-04	Chapter
trial_58	128	3	32	7	512	0.3145	4.8583e-05	Chapter
trial_79	128	5	32	7	256	0.2268	1.6398e-04	Chapter
trial_96	128	3	64	7	128	0.2323	3.9153e-05	Chapter
trial_84	128	7	64	7	128	0.1061	9.0273e-05	Chapter
trial_29	64	3	64	7	128	0.2166	6.8364e-05	Chapter
trial_43	128	3	64	7	128	0.2266	7.7366e-05	Chapter
trial_46	128	3	64	7	128	0.0365	1.3457e-04	Chapter
trial_47	128	3	64	7	256	0.1590	1.0751e-04	Chapter
trial_93	128	3	64	7	128	0.2192	5.5498e-05	Chapter
trial_9	64	7	64	7	256	0.4399	4.1473e-05	Chapter

	units1	kernel_size1	units2	kernel_size2	dense_units	dropout_rate	learning_rate	Chapters
trial_52	128	3	64	7	256	0.2263	5.1771e-05	Chapter
trial_53	128	3	64	7	256	0.2004	5.8430e-05	Chapter
trial_92	64	3	64	7	128	0.2180	5.4860e-05	Chapter
trial_25	128	3	64	3	256	0.1041	5.1592e-05	Chapter
trial_32	128	3	64	3	128	0.0880	1.4323e-04	Chapter
trial_76	128	3	64	7	128	0.2247	7.8767e-05	Chapter
trial_4	128	7	16	7	128	0.4268	9.8775e-05	Chapter
trial_37	128	3	64	5	128	0.1696	2.6938e-04	Chapter
trial_44	128	3	64	7	128	0.3040	1.9680e-04	Chapter
trial_31	128	3	64	5	128	0.2051	2.7578e-04	Chapter
trial_41	128	3	64	5	128	0.2579	7.4715e-04	Chapter
trial_50	128	3	64	7	256	0.2459	1.7503e-04	Chapter
trial_89	128	3	64	5	256	0.1724	9.5599e-05	Chapter
trial_10	64	7	64	5	512	0.3580	8.7540e-05	Chapter
trial_38	128	3	64	7	128	0.0517	6.9300e-05	Chapter
trial_59	128	3	64	7	256	0.2373	3.3638e-05	Chapter
trial_67	128	3	64	7	256	0.2240	6.0778e-05	Chapter
trial_85	128	3	64	3	256	0.2651	3.6381e-04	Chapter
trial_88	128	3	64	7	128	0.2385	4.6586e-05	Chapter
trial_97	128	3	64	7	128	0.2802	3.0768e-05	Chapter
trial_73	64	3	64	7	128	0.1506	1.0023e-04	Chapter
trial_74	64	3	64	7	128	0.1171	5.4771e-05	Chapter
trial_99	128	3	64	7	128	0.2479	4.4923e-05	Chapter
trial_80	128	5	64	7	256	0.1720	1.4726e-04	Chapter
trial_87	128	3	64	7	512	0.1332	1.9327e-04	Chapter
trial_24	128	3	64	3	256	0.0793	4.0887e-05	Chapter
trial_27	64	5	64	5	256	0.1694	4.0699e-05	Chapter
trial_68	128	3	64	5	128	0.1311	8.7547e-05	Chapter
trial_54	128	3	64	7	256	0.1189	2.7378e-05	Chapter
trial_72	64	3	64	7	128	0.2099	6.9659e-05	Chapter

	units1	kernel_size1	units2	kernel_size2	dense_units	dropout_rate	learning_rate	Chapters
trial_7	128	7	64	5	256	0.2871	5.2490e-04	Chapter
trial_16	64	5	64	5	512	0.4355	3.6410e-04	Chapter
trial_26	128	5	64	3	128	0.1178	5.0798e-05	Chapter
trial_34	128	3	64	5	128	0.1420	1.2296e-04	Chapter
trial_40	128	5	32	5	512	0.1858	9.6667e-05	Chapter
trial_48	128	5	64	7	256	0.1605	8.1628e-05	Chapter
trial_63	128	3	64	5	128	0.1294	8.2640e-05	Chapter
trial_70	128	3	64	5	128	0.0928	1.2935e-04	Chapter
trial_77	128	5	64	7	256	0.1833	1.4985e-04	Chapter
trial_100	128	3	64	7	128	0.2539	6.3859e-05	Chapter
trial_36	128	3	64	5	128	0.1446	1.1419e-04	Chapter
trial_39	128	3	64	5	128	0.1309	2.6854e-05	Chapter
trial_18	128	3	32	3	512	0.0155	1.9491e-05	Chapter
trial_23	128	3	64	3	512	0.0615	1.6440e-05	Chapter
trial_15	64	7	32	7	128	0.3236	5.8053e-05	Chapter
trial_98	128	3	32	7	128	0.2301	3.9508e-05	Chapter
trial_61	128	3	64	7	256	0.2917	1.5022e-04	Chapter
trial_71	128	3	32	3	128	0.1412	6.4341e-05	Chapter
trial_12	64	5	32	7	512	0.4965	3.5515e-05	Chapter
trial_78	128	5	64	7	256	0.1921	2.2716e-04	Chapter
trial_13	64	7	32	3	512	0.3780	3.3661e-05	Chapter
trial_19	128	3	64	3	256	0.0430	1.9288e-05	Chapter
trial_60	128	3	64	7	128	0.3438	4.6015e-05	Chapter
trial_66	128	3	64	5	128	0.0682	5.9857e-04	Chapter
trial_3	128	3	64	3	256	0.1456	7.1378e-04	Chapter
trial_62	128	3	64	5	128	0.1011	1.2276e-04	Chapter
trial_17	64	7	16	7	256	0.2101	5.3669e-05	Chapter
trial_20	64	3	64	3	128	0.0105	2.1805e-05	Chapter
trial_57	128	3	64	7	256	0.0773	6.2421e-05	Chapter
trial_8	128	5	64	3	256	0.1095	2.0019e-04	Chapter

	units1	kernel_size1	units2	kernel_size2	dense_units	dropout_rate	learning_rate	Chapters
trial_5	128	7	64	5	256	0.2761	1.8135e-04	Chapter
trial_65	128	3	32	5	128	0.1582	1.1012e-04	Chapter
trial_81	128	7	64	7	256	0.2502	9.4930e-04	Chapter
trial_22	128	3	32	3	256	0.0148	1.9809e-05	Chapter
trial_91	128	3	64	7	256	0.0637	7.0192e-05	Chapter
trial_2	128	7	16	7	512	0.1809	3.0268e-05	Chapter
trial_21	128	3	64	3	256	0.2371	1.0038e-05	Chapter
trial_45	128	3	64	7	128	0.1865	9.3056e-05	Chapter
trial_14	64	5	16	5	512	0.3940	1.4469e-05	Chapter
trial_1	128	3	64	5	512	0.0670	1.0874e-04	Chapter
trial_95	128	3	64	7	128	0.2036	7.7150e-05	Chapter
trial_11	64	5	32	7	128	0.4852	1.0108e-05	Chapter

Test Results

	accuracy	precision	recall	f1	Chapters
trial_90	0.9160	0.9160	0.9160	0.9160	Chapter
trial_94	0.9160	0.9160	0.9160	0.9160	Chapter
trial_33	0.9104	0.9104	0.9104	0.9104	Chapter
trial_28	0.9093	0.9093	0.9093	0.9093	Chapter
trial_83	0.9071	0.9071	0.9071	0.9071	Chapter
trial_30	0.9059	0.9059	0.9059	0.9059	Chapter
trial_35	0.9048	0.9048	0.9048	0.9048	Chapter
trial_55	0.9048	0.9048	0.9048	0.9048	Chapter
trial_82	0.9048	0.9048	0.9048	0.9048	Chapter
trial_56	0.9037	0.9037	0.9037	0.9037	Chapter
trial_64	0.9026	0.9026	0.9026	0.9026	Chapter
trial_69	0.9026	0.9026	0.9026	0.9026	Chapter
trial_75	0.9026	0.9026	0.9026	0.9026	Chapter
trial_6	0.9015	0.9015	0.9015	0.9015	Chapter
trial_42	0.9015	0.9015	0.9015	0.9015	Chapter

	accuracy	precision	recall	f1	Chapters
trial_49	0.9015	0.9015	0.9015	0.9015	Chapter
trial_86	0.9015	0.9015	0.9015	0.9015	Chapter
trial_51	0.9003	0.9003	0.9003	0.9003	Chapter
trial_58	0.9003	0.9003	0.9003	0.9003	Chapter
trial_79	0.9003	0.9003	0.9003	0.9003	Chapter
trial_96	0.9003	0.9003	0.9003	0.9003	Chapter
trial_84	0.8992	0.8992	0.8992	0.8992	Chapter
trial_29	0.8981	0.8981	0.8981	0.8981	Chapter
trial_43	0.8981	0.8981	0.8981	0.8981	Chapter
trial_46	0.8981	0.8981	0.8981	0.8981	Chapter
trial_47	0.8981	0.8981	0.8981	0.8981	Chapter
trial_93	0.8981	0.8981	0.8981	0.8981	Chapter
trial_9	0.8970	0.8970	0.8970	0.8970	Chapter
trial_52	0.8970	0.8970	0.8970	0.8970	Chapter
trial_53	0.8970	0.8970	0.8970	0.8970	Chapter
trial_92	0.8970	0.8970	0.8970	0.8970	Chapter
trial_25	0.8959	0.8959	0.8959	0.8959	Chapter
trial_32	0.8959	0.8959	0.8959	0.8959	Chapter
trial_76	0.8959	0.8959	0.8959	0.8959	Chapter
trial_4	0.8936	0.8936	0.8936	0.8936	Chapter
trial_37	0.8936	0.8936	0.8936	0.8936	Chapter
trial_44	0.8936	0.8936	0.8936	0.8936	Chapter
trial_31	0.8925	0.8925	0.8925	0.8925	Chapter
trial_41	0.8925	0.8925	0.8925	0.8925	Chapter
trial_50	0.8925	0.8925	0.8925	0.8925	Chapter
trial_89	0.8925	0.8925	0.8925	0.8925	Chapter
trial_10	0.8914	0.8914	0.8914	0.8914	Chapter
trial_38	0.8914	0.8914	0.8914	0.8914	Chapter
trial_59	0.8914	0.8914	0.8914	0.8914	Chapter
trial_67	0.8914	0.8914	0.8914	0.8914	Chapter

	accuracy	precision	recall	f1	Chapters
trial_85	0.8914	0.8914	0.8914	0.8914	Chapter
trial_88	0.8914	0.8914	0.8914	0.8914	Chapter
trial_97	0.8914	0.8914	0.8914	0.8914	Chapter
trial_73	0.8903	0.8903	0.8903	0.8903	Chapter
trial_74	0.8903	0.8903	0.8903	0.8903	Chapter
trial_99	0.8903	0.8903	0.8903	0.8903	Chapter
trial_80	0.8891	0.8891	0.8891	0.8891	Chapter
trial_87	0.8891	0.8891	0.8891	0.8891	Chapter
trial_24	0.8880	0.8880	0.8880	0.8880	Chapter
trial_27	0.8880	0.8880	0.8880	0.8880	Chapter
trial_68	0.8880	0.8880	0.8880	0.8880	Chapter
trial_54	0.8869	0.8869	0.8869	0.8869	Chapter
trial_72	0.8869	0.8869	0.8869	0.8869	Chapter
trial_7	0.8858	0.8858	0.8858	0.8858	Chapter
trial_16	0.8858	0.8858	0.8858	0.8858	Chapter
trial_26	0.8858	0.8858	0.8858	0.8858	Chapter
trial_34	0.8847	0.8847	0.8847	0.8847	Chapter
trial_40	0.8847	0.8847	0.8847	0.8847	Chapter
trial_48	0.8847	0.8847	0.8847	0.8847	Chapter
trial_63	0.8847	0.8847	0.8847	0.8847	Chapter
trial_70	0.8847	0.8847	0.8847	0.8847	Chapter
trial_77	0.8847	0.8847	0.8847	0.8847	Chapter
trial_100	0.8847	0.8847	0.8847	0.8847	Chapter
trial_36	0.8835	0.8835	0.8835	0.8835	Chapter
trial_39	0.8835	0.8835	0.8835	0.8835	Chapter
trial_18	0.8824	0.8824	0.8824	0.8824	Chapter
trial_23	0.8813	0.8813	0.8813	0.8813	Chapter
trial_15	0.8791	0.8791	0.8791	0.8791	Chapter
trial_98	0.8779	0.8779	0.8779	0.8779	Chapter
trial_61	0.8768	0.8768	0.8768	0.8768	Chapter

	accuracy	precision	recall	f1	Chapters
trial_71	0.8768	0.8768	0.8768	0.8768	Chapter
trial_12	0.8746	0.8746	0.8746	0.8746	Chapter
trial_78	0.8746	0.8746	0.8746	0.8746	Chapter
trial_13	0.8735	0.8735	0.8735	0.8735	Chapter
trial_19	0.8735	0.8735	0.8735	0.8735	Chapter
trial_60	0.8723	0.8723	0.8723	0.8723	Chapter
trial_66	0.8712	0.8712	0.8712	0.8712	Chapter
trial_3	0.8701	0.8701	0.8701	0.8701	Chapter
trial_62	0.8701	0.8701	0.8701	0.8701	Chapter
trial_17	0.8690	0.8690	0.8690	0.8690	Chapter
trial_20	0.8690	0.8690	0.8690	0.8690	Chapter
trial_57	0.8690	0.8690	0.8690	0.8690	Chapter
trial_8	0.8667	0.8667	0.8667	0.8667	Chapter
trial_5	0.8634	0.8634	0.8634	0.8634	Chapter
trial_65	0.8634	0.8634	0.8634	0.8634	Chapter
trial_81	0.8634	0.8634	0.8634	0.8634	Chapter
trial_22	0.8611	0.8611	0.8611	0.8611	Chapter
trial_91	0.8611	0.8611	0.8611	0.8611	Chapter
trial_2	0.8600	0.8600	0.8600	0.8600	Chapter
trial_21	0.8511	0.8511	0.8511	0.8511	Chapter
trial_45	0.8499	0.8499	0.8499	0.8499	Chapter
trial_14	0.8466	0.8466	0.8466	0.8466	Chapter
trial_1	0.8309	0.8309	0.8309	0.8309	Chapter
trial_95	0.8275	0.8275	0.8275	0.8275	Chapter
trial_11	0.8052	0.8052	0.8052	0.8052	Chapter

trial_90

- *Start Time:* 2024-10-20 12:23:10
- *Duration:* 33.507
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	5
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.15073888319621384
learning_rate	0.00015729605914757832

Evaluation Metrics:

	train	val	test
accuracy	0.9856	0.9031	0.9160
precision	0.9856	0.9031	0.9160
recall	0.9856	0.9031	0.9160
f1	0.9856	0.9031	0.9160

Figures:

Model Summary

Model: "sequential"

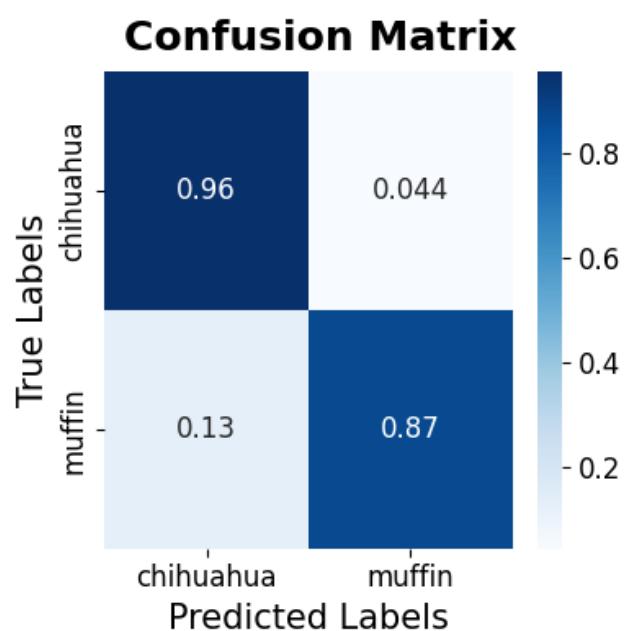
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 128)	9,728
max_pooling2d (MaxPooling2D)	(None, 62, 62, 128)	0
conv2d_1 (Conv2D)	(None, 56, 56, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,860,296 (18.54 MB)

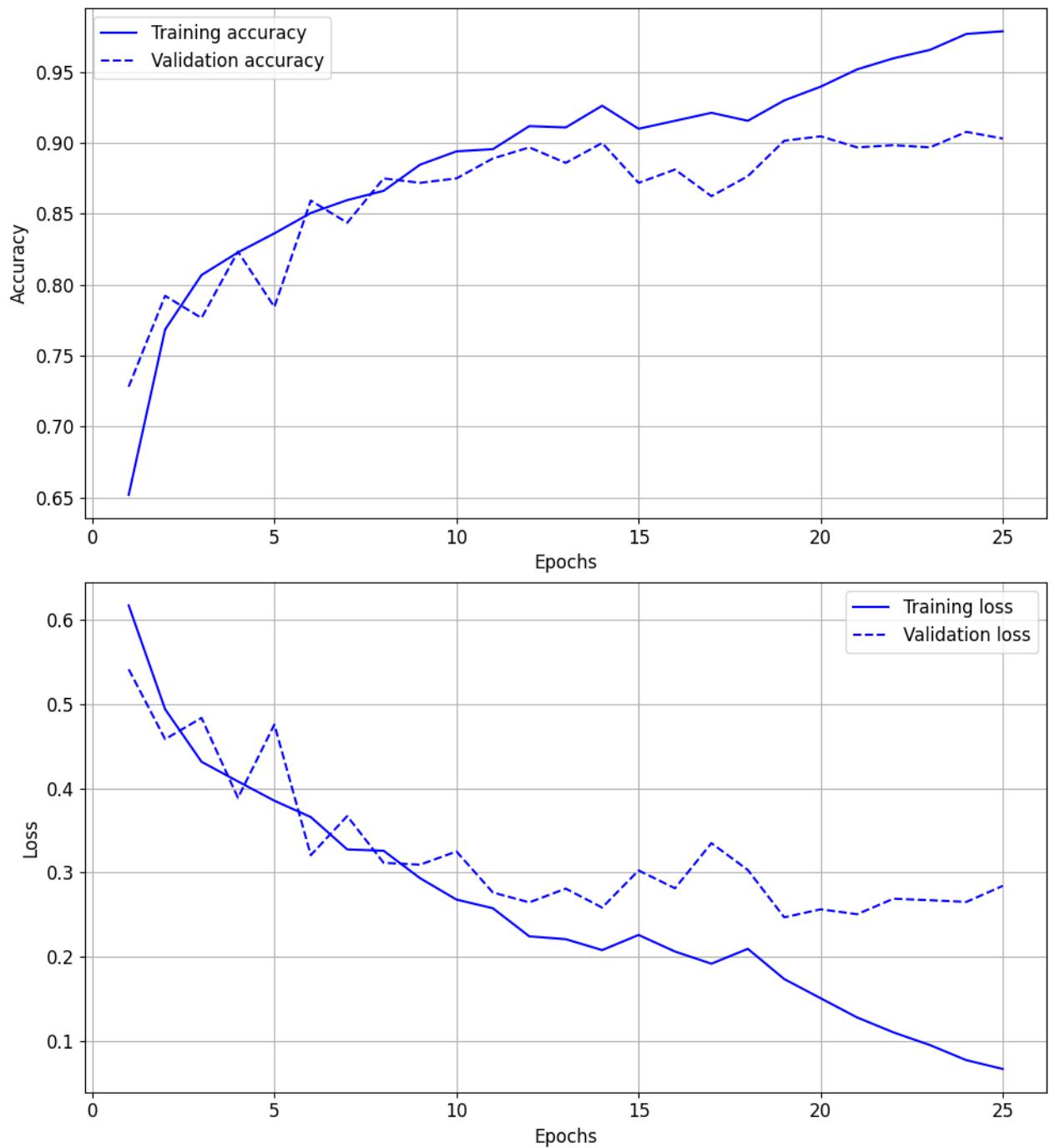
Trainable params: 1,620,098 (6.18 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,240,198 (12.36 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8941	0.9560	0.9240	477
muffin	0.9452	0.8702	0.9061	416
micro avg	0.9160	0.9160	0.9160	893
macro avg	0.9196	0.9131	0.9151	893
weighted avg	0.9179	0.9160	0.9157	893
samples avg	0.9160	0.9160	0.9160	893

trial_94

- *Start Time:* 2024-10-20 12:25:17
- *Duration:* 32.988
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.20494771584496596
learning_rate	0.00013488839008780903

Evaluation Metrics:

	train	val	test
accuracy	0.9709	0.9000	0.9160
precision	0.9709	0.9000	0.9160
recall	0.9709	0.9000	0.9160
f1	0.9709	0.9000	0.9160

Figures:

Model Summary

Model: "sequential"

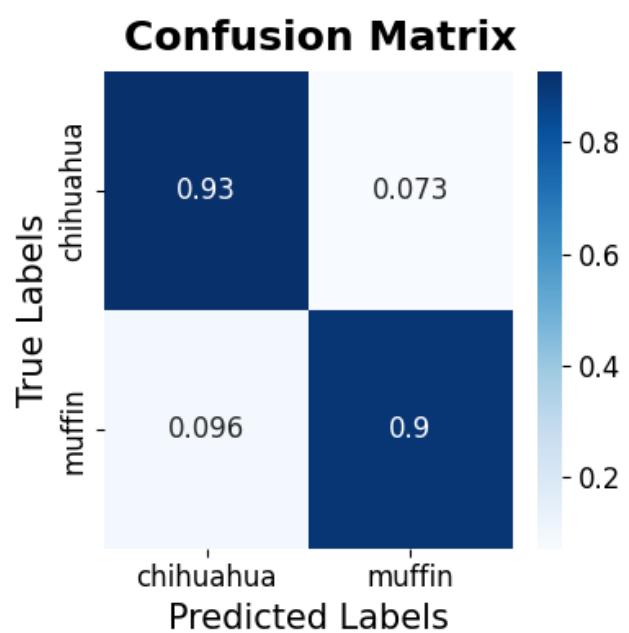
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

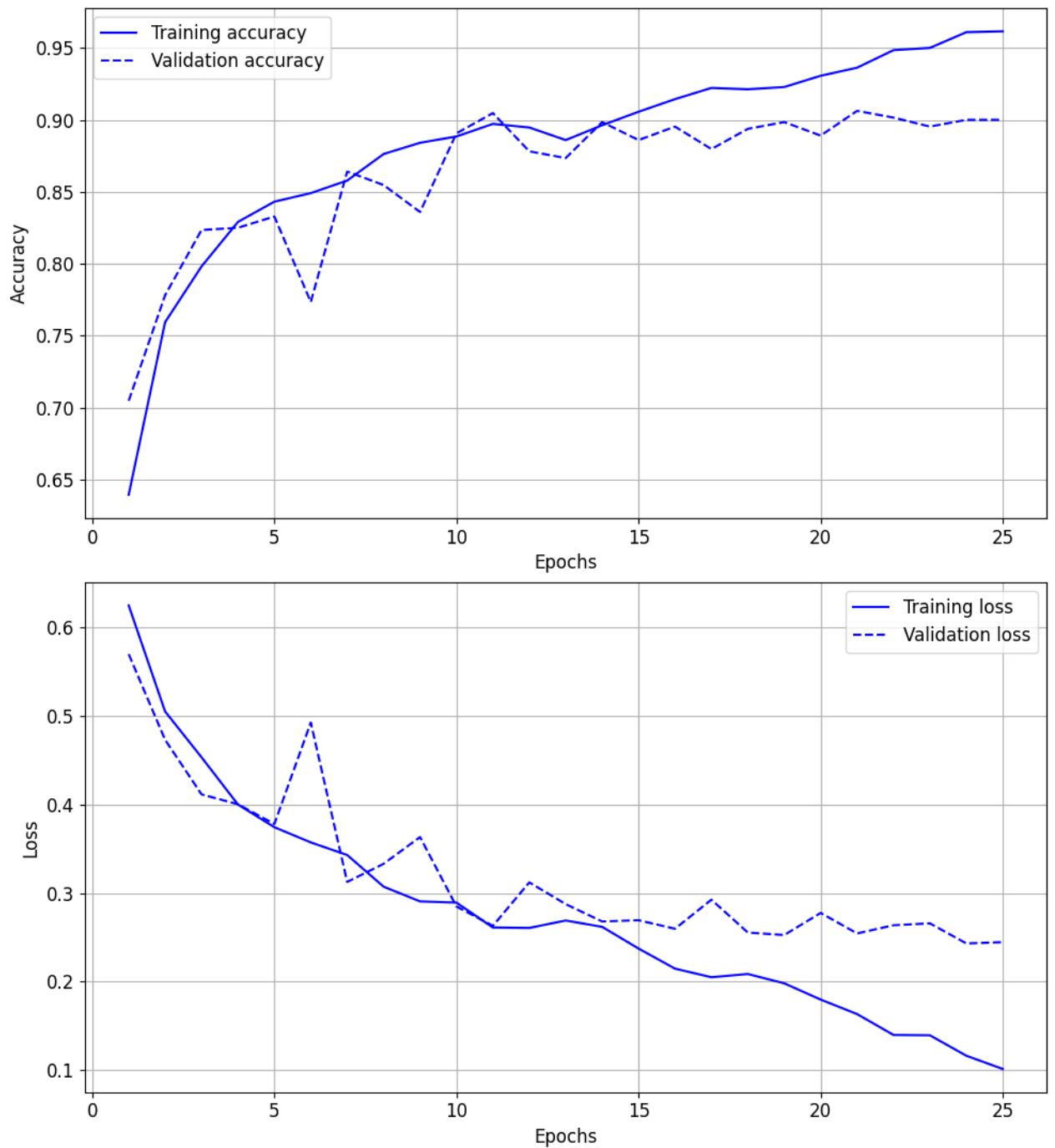
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9170	0.9266	0.9218	477
muffin	0.9148	0.9038	0.9093	416
micro avg	0.9160	0.9160	0.9160	893
macro avg	0.9159	0.9152	0.9156	893
weighted avg	0.9160	0.9160	0.9160	893
samples avg	0.9160	0.9160	0.9160	893

trial_33

- *Start Time:* 2024-10-20 11:52:19
- *Duration:* 29.383
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	128
dropout_rate	0.13858952691276852
learning_rate	0.00012008677234254134

Evaluation Metrics:

	train	val	test
accuracy	0.9575	0.8953	0.9104
precision	0.9575	0.8953	0.9104
recall	0.9575	0.8953	0.9104
f1	0.9575	0.8953	0.9104

Figures:

Model Summary

Model: "sequential"

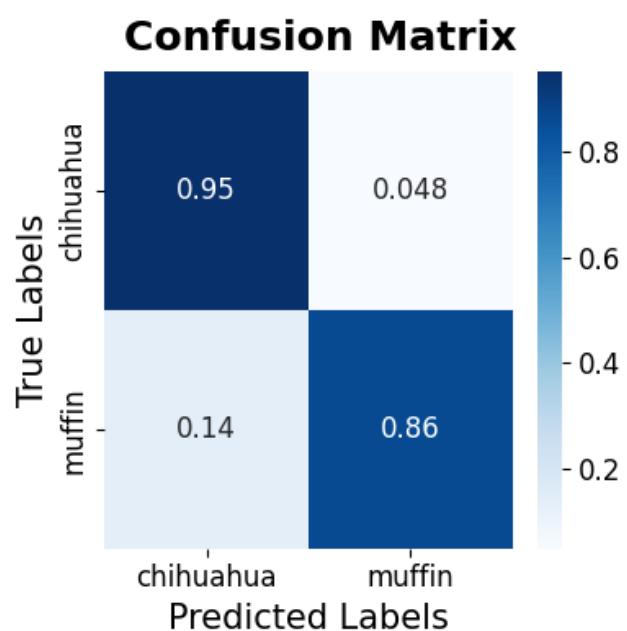
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1,179,776
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,522,376 (17.25 MB)

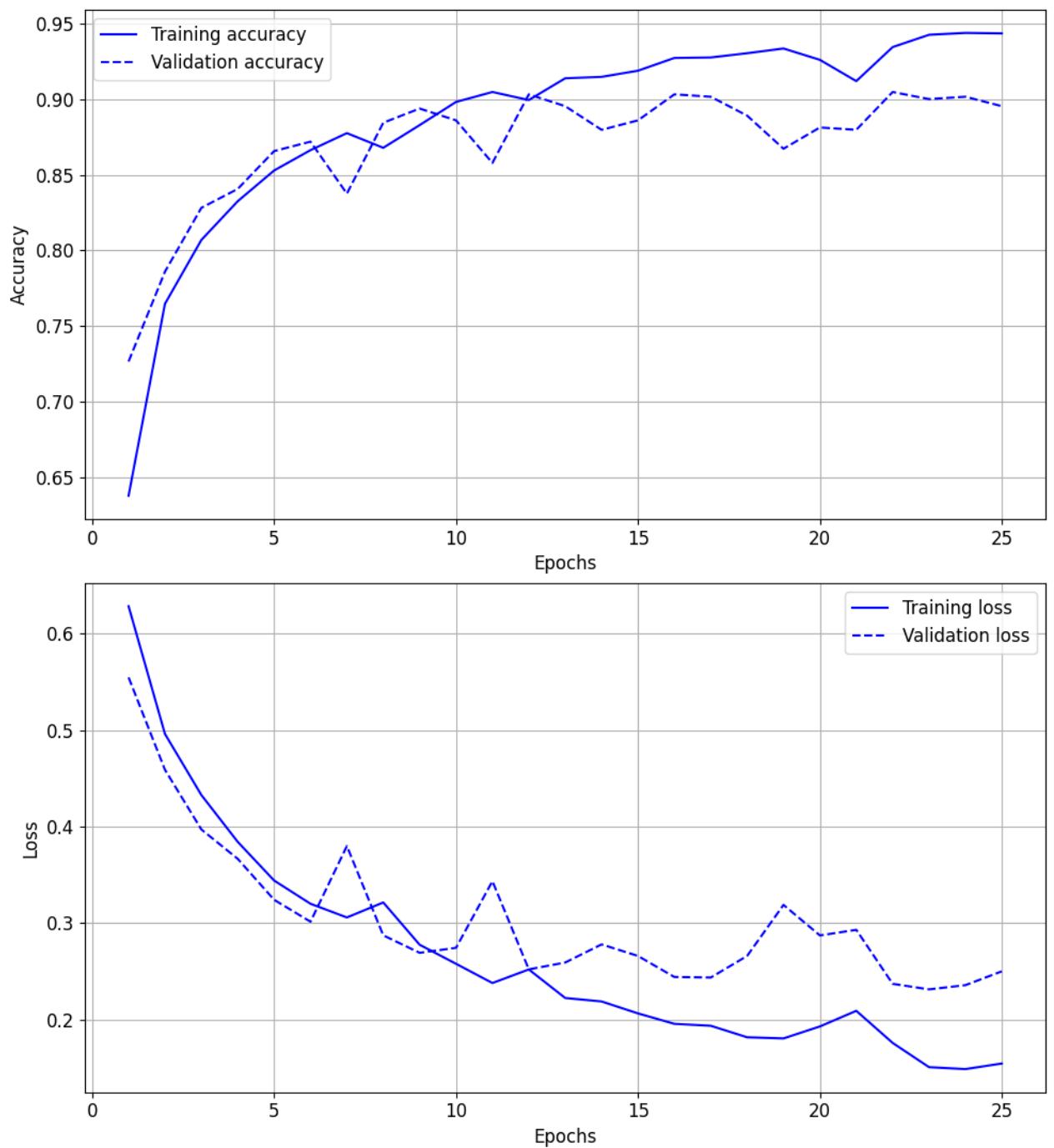
Trainable params: 1,507,458 (5.75 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,014,918 (11.50 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8885	0.9518	0.9190	477
muffin	0.9398	0.8630	0.8997	416
micro avg	0.9104	0.9104	0.9104	893
macro avg	0.9141	0.9074	0.9094	893
weighted avg	0.9124	0.9104	0.9100	893
samples avg	0.9104	0.9104	0.9104	893

trial_28

- *Start Time:* 2024-10-20 11:50:00
- *Duration:* 25.315
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	3
dense_units	256
dropout_rate	0.09430384806720865
learning_rate	0.00016340772318632486

Evaluation Metrics:

	train	val	test
accuracy	0.9847	0.8859	0.9093
precision	0.9847	0.8859	0.9093
recall	0.9847	0.8859	0.9093
f1	0.9847	0.8859	0.9093

Figures:

Model Summary

Model: "sequential"

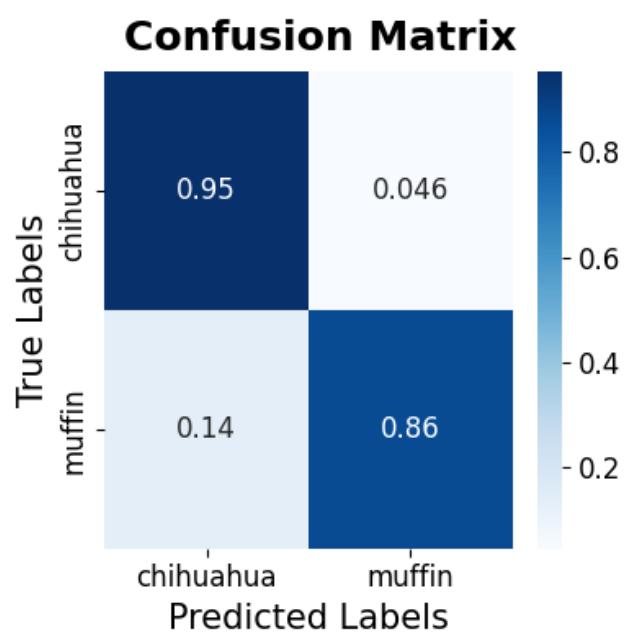
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 61, 61, 64)	73,792
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 64)	0
conv2d_2 (Conv2D)	(None, 28, 28, 64)	36,928
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 64)	0
flatten (Flatten)	(None, 12544)	0
dense (Dense)	(None, 256)	3,211,520
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 10,176,392 (38.82 MB)

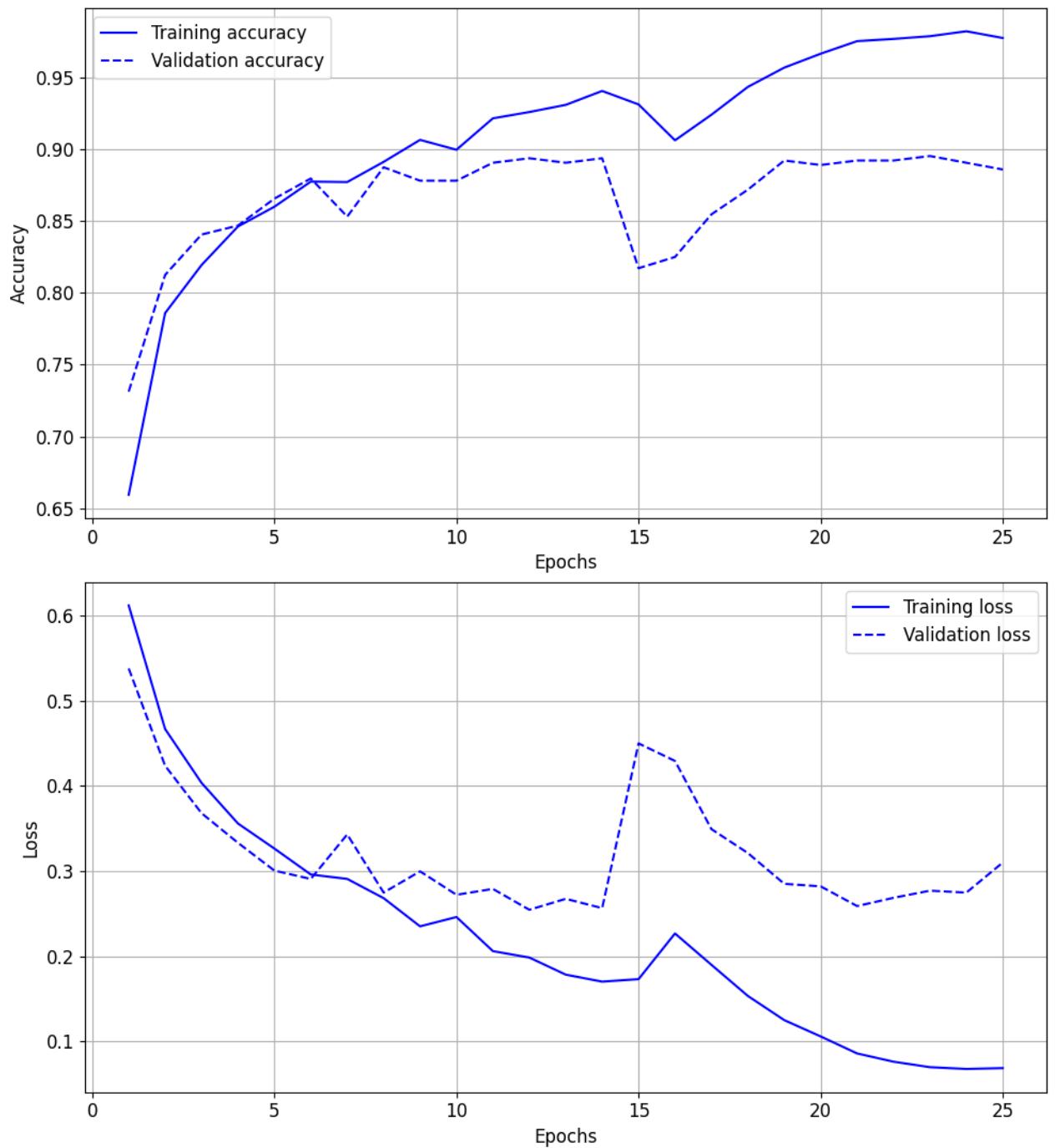
Trainable params: 3,392,130 (12.94 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 6,784,262 (25.88 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8852	0.9539	0.9183	477
muffin	0.9420	0.8582	0.8981	416
micro avg	0.9093	0.9093	0.9093	893
macro avg	0.9136	0.9060	0.9082	893
weighted avg	0.9116	0.9093	0.9089	893
samples avg	0.9093	0.9093	0.9093	893

trial_83

- *Start Time:* 2024-10-20 12:19:21
- *Duration:* 33.153
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	512
dropout_rate	0.18497461170165186
learning_rate	0.00011528438692355924

Evaluation Metrics:

	train	val	test
accuracy	0.9950	0.9016	0.9071
precision	0.9950	0.9016	0.9071
recall	0.9950	0.9016	0.9071
f1	0.9950	0.9016	0.9071

Figures:

Model Summary

Model: "sequential"

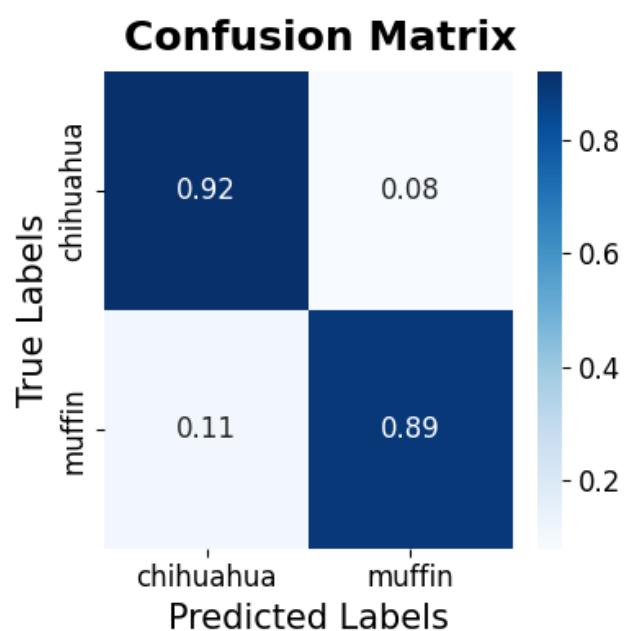
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 512)	3,965,440
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 14,504,840 (55.33 MB)

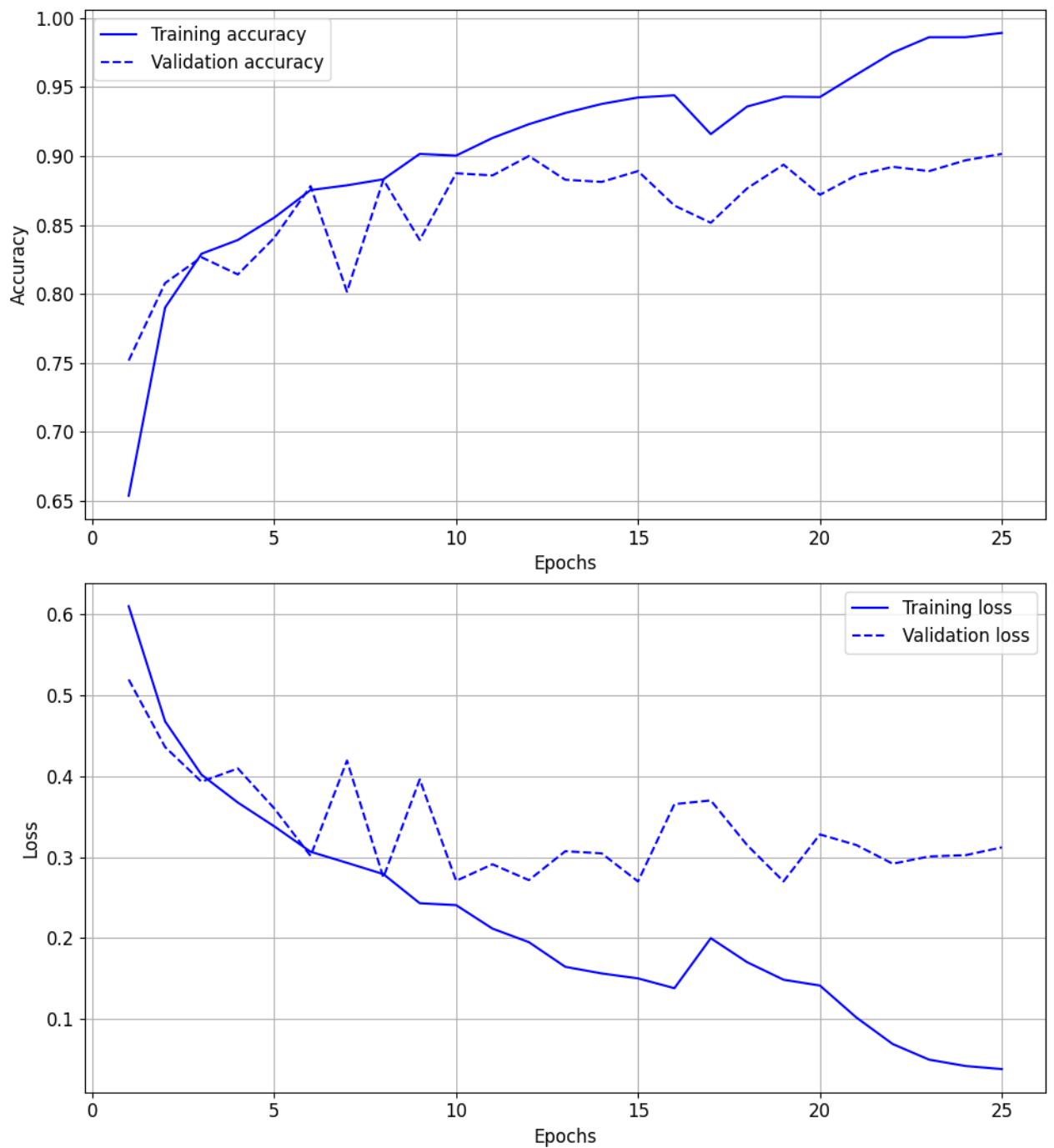
Trainable params: 4,834,946 (18.44 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 9,669,894 (36.89 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9070	0.9203	0.9136	477
muffin	0.9071	0.8918	0.8994	416
micro avg	0.9071	0.9071	0.9071	893
macro avg	0.9071	0.9061	0.9065	893
weighted avg	0.9071	0.9071	0.9070	893
samples avg	0.9071	0.9071	0.9071	893

trial_30

- *Start Time:* 2024-10-20 11:50:52
- *Duration:* 29.679
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	128
dropout_rate	0.07956713490452443
learning_rate	0.00012679780551011754

Evaluation Metrics:

	train	val	test
accuracy	0.9728	0.9031	0.9059
precision	0.9728	0.9031	0.9059
recall	0.9728	0.9031	0.9059
f1	0.9728	0.9031	0.9059

Figures:

Model Summary

Model: "sequential"

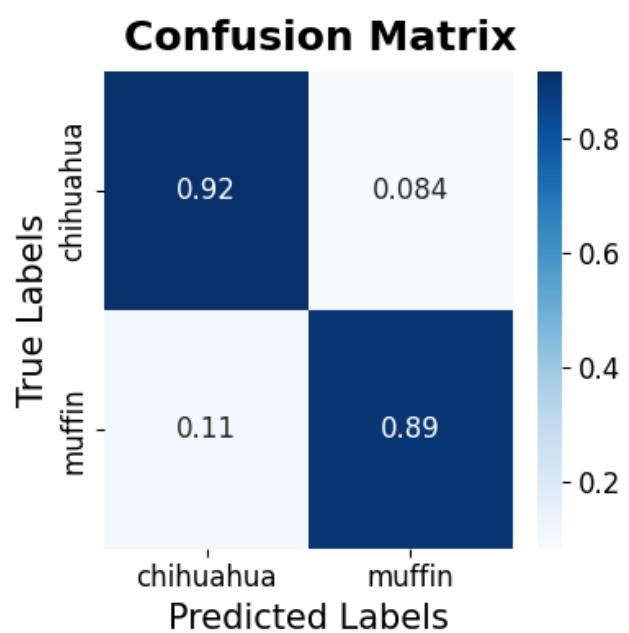
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1,179,776
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,522,376 (17.25 MB)

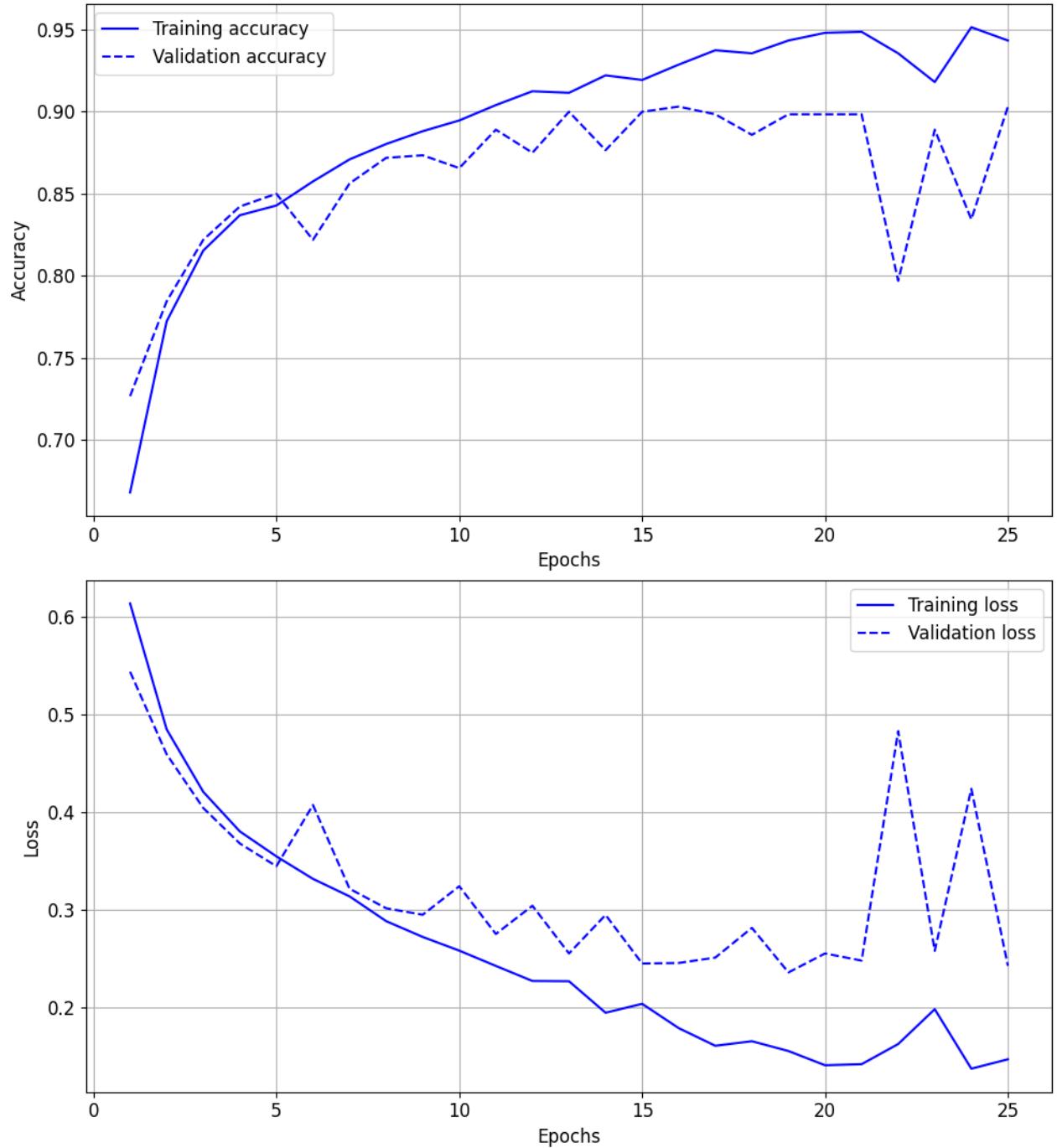
Trainable params: 1,507,458 (5.75 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,014,918 (11.50 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9085	0.9161	0.9123	477
muffin	0.9029	0.8942	0.8986	416
micro avg	0.9059	0.9059	0.9059	893
macro avg	0.9057	0.9052	0.9054	893
weighted avg	0.9059	0.9059	0.9059	893
samples avg	0.9059	0.9059	0.9059	893

trial_35

- *Start Time:* 2024-10-20 11:53:19
- *Duration:* 38.597
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.14602546304919894
learning_rate	6.826021418260614e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9444	0.9047	0.9048
precision	0.9444	0.9047	0.9048
recall	0.9444	0.9047	0.9048
f1	0.9444	0.9047	0.9048

Figures:

Model Summary

Model: "sequential"

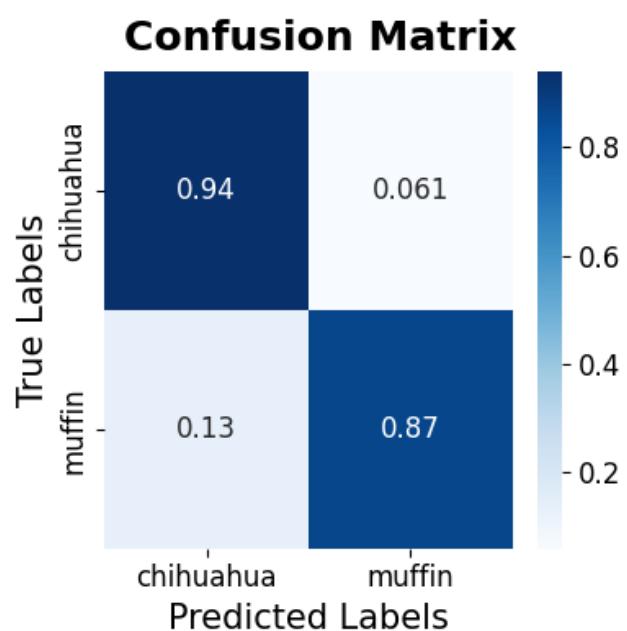
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

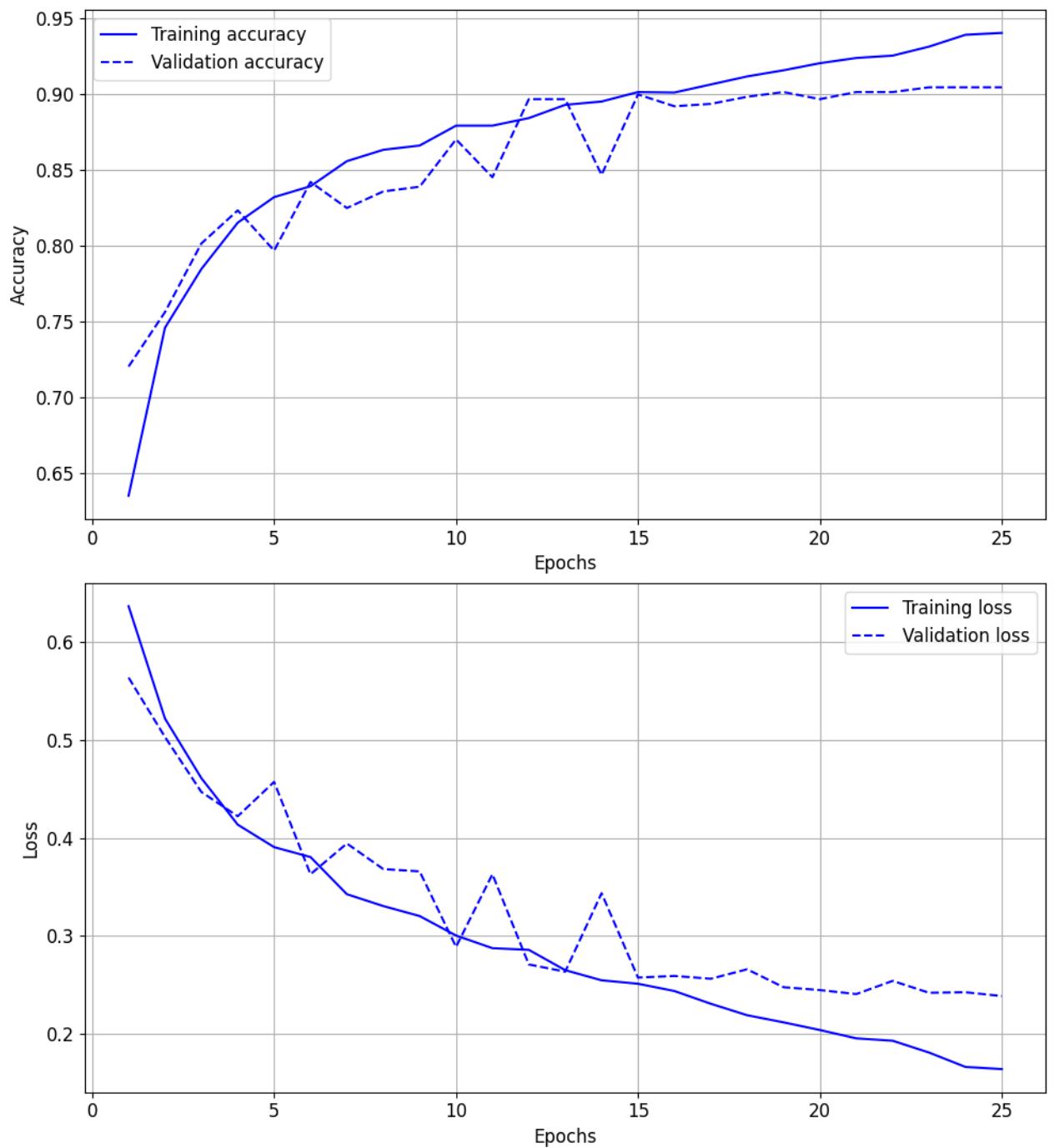
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8889	0.9392	0.9134	477
muffin	0.9254	0.8654	0.8944	416
micro avg	0.9048	0.9048	0.9048	893
macro avg	0.9072	0.9023	0.9039	893
weighted avg	0.9059	0.9048	0.9045	893
samples avg	0.9048	0.9048	0.9048	893

trial_55

- *Start Time:* 2024-10-20 12:04:33
- *Duration:* 33.289
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.2645726878902979
learning_rate	0.00010340639501222415

Evaluation Metrics:

	train	val	test
accuracy	0.9609	0.8938	0.9048
precision	0.9609	0.8938	0.9048
recall	0.9609	0.8938	0.9048
f1	0.9609	0.8937	0.9048

Figures:

Model Summary

Model: "sequential"

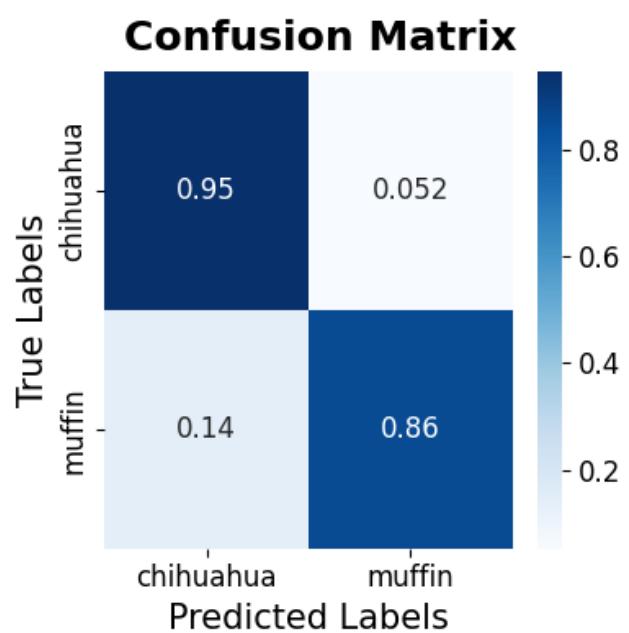
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,964,552 (30.38 MB)

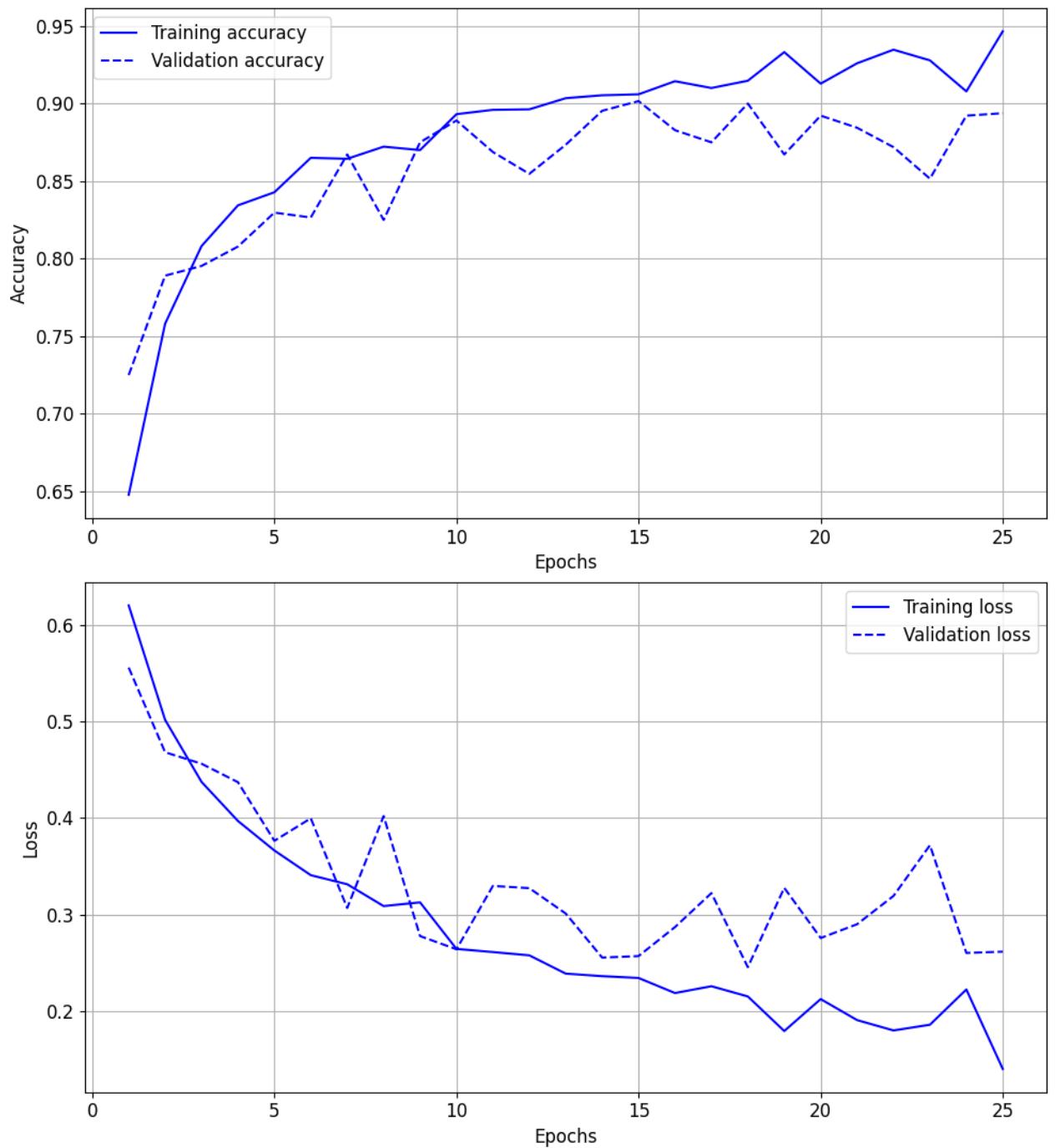
Trainable params: 2,654,850 (10.13 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,309,702 (20.25 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8828	0.9476	0.9141	477
muffin	0.9344	0.8558	0.8934	416
micro avg	0.9048	0.9048	0.9048	893
macro avg	0.9086	0.9017	0.9037	893
weighted avg	0.9068	0.9048	0.9044	893
samples avg	0.9048	0.9048	0.9048	893

trial_82

- *Start Time:* 2024-10-20 12:18:47
- *Duration:* 32.997
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.2092345389957374
learning_rate	7.772106031977693e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9428	0.8922	0.9048
precision	0.9428	0.8922	0.9048
recall	0.9428	0.8922	0.9048
f1	0.9428	0.8922	0.9048

Figures:

Model Summary

Model: "sequential"

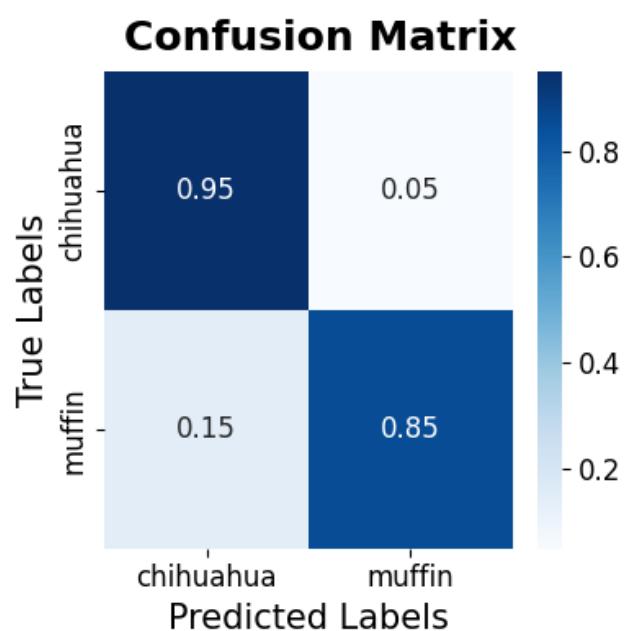
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

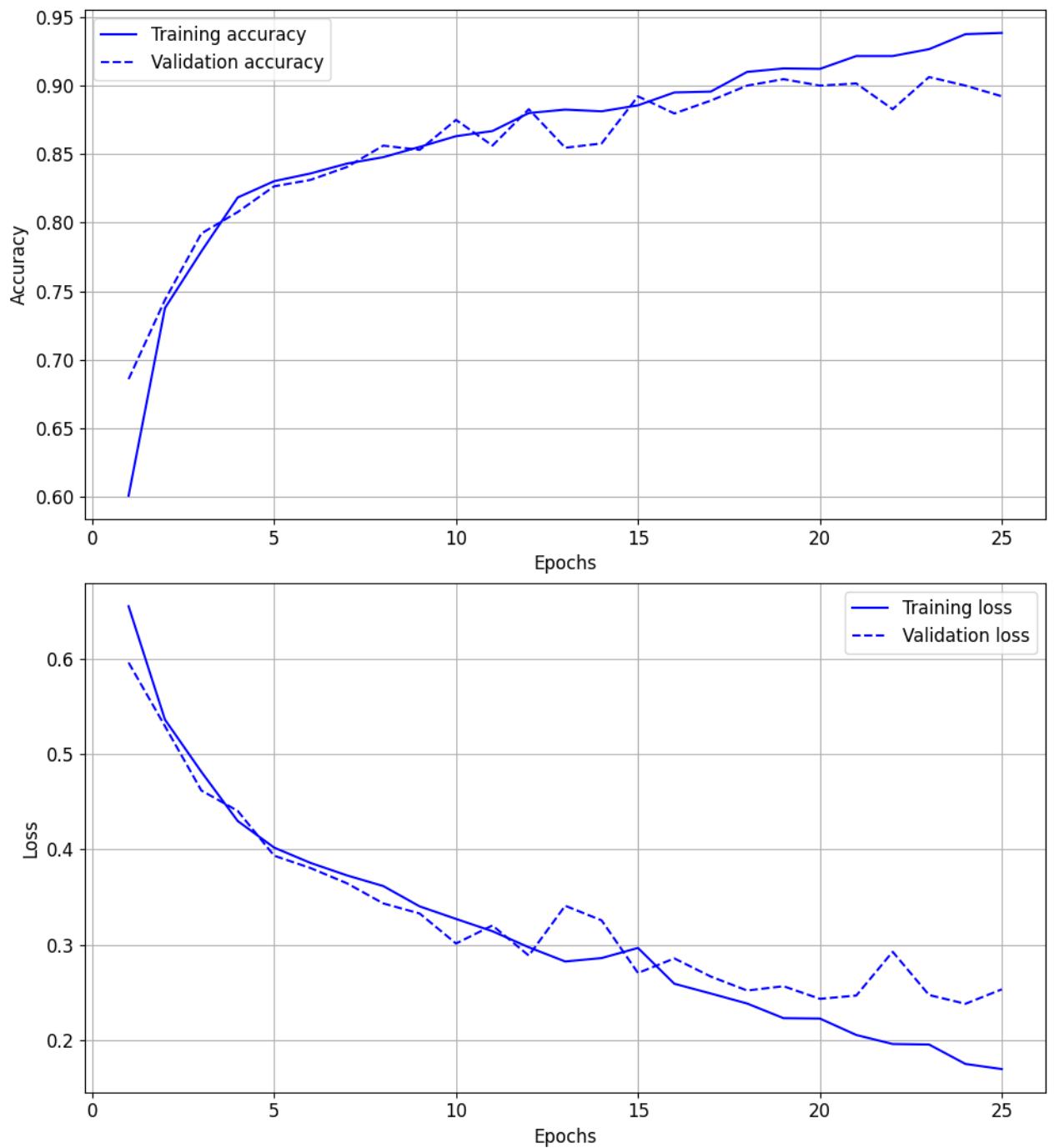
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8813	0.9497	0.9142	477
muffin	0.9367	0.8534	0.8931	416
micro avg	0.9048	0.9048	0.9048	893
macro avg	0.9090	0.9015	0.9037	893
weighted avg	0.9071	0.9048	0.9044	893
samples avg	0.9048	0.9048	0.9048	893

trial_56

- *Start Time:* 2024-10-20 12:05:07
- *Duration:* 33.409
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	512
dropout_rate	0.15939983644441566
learning_rate	7.638535387067337e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9794	0.8938	0.9037
precision	0.9794	0.8938	0.9037
recall	0.9794	0.8938	0.9037
f1	0.9794	0.8937	0.9037

Figures:

Model Summary

Model: "sequential"

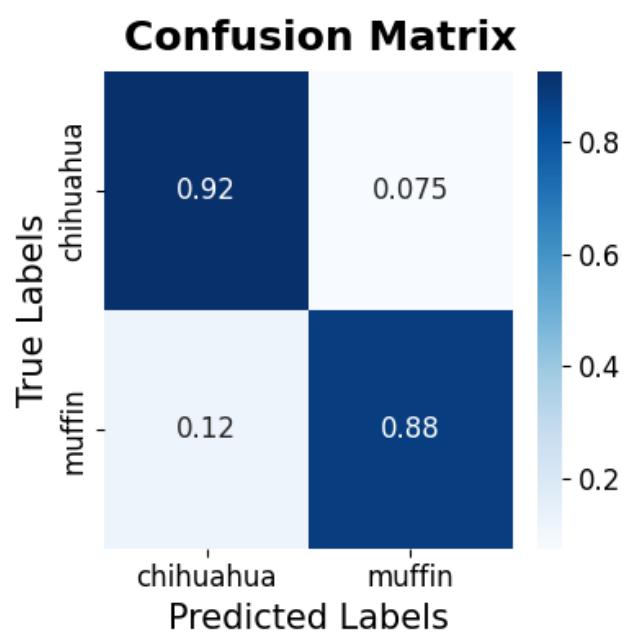
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 512)	3,965,440
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 14,504,840 (55.33 MB)

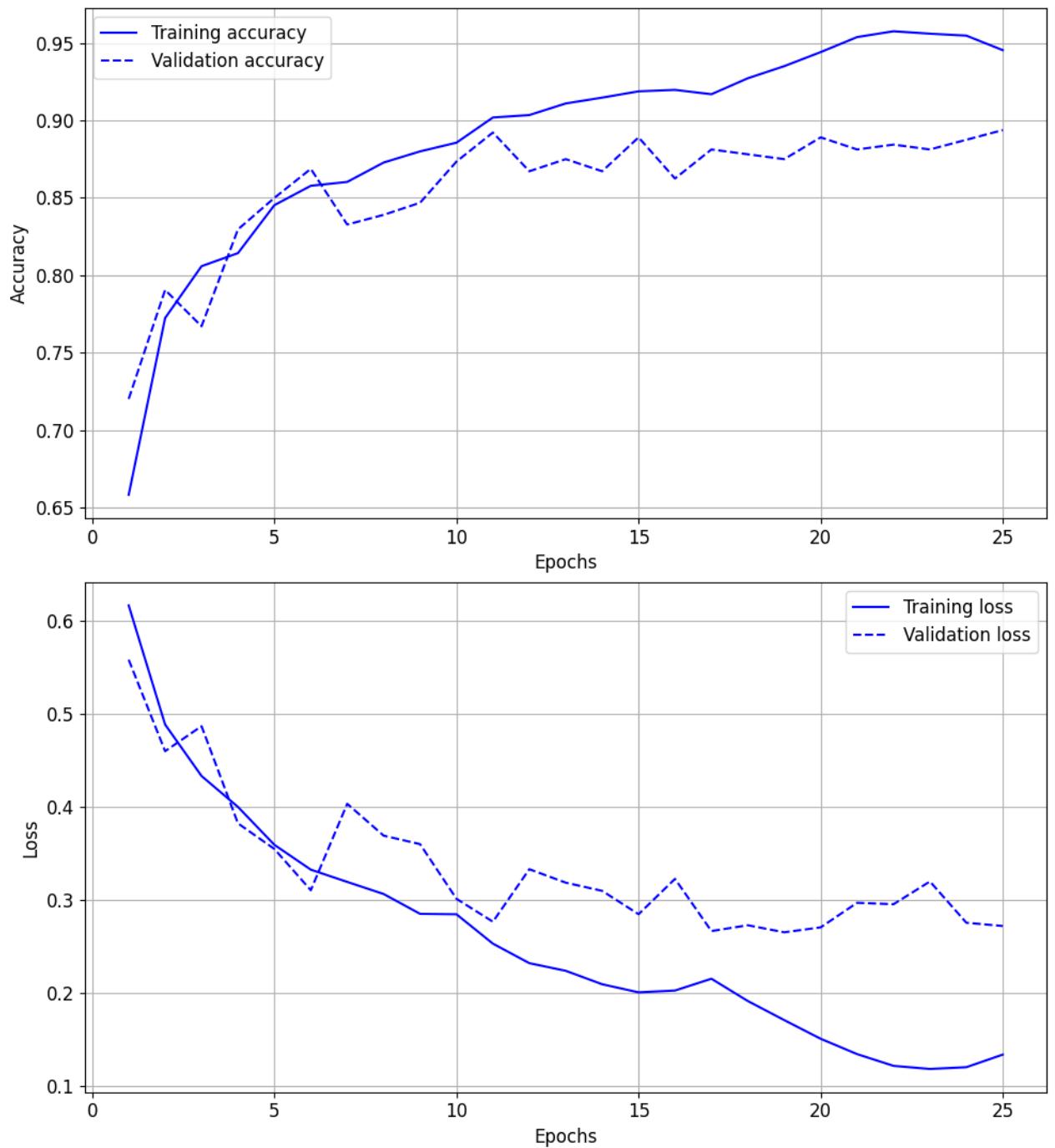
Trainable params: 4,834,946 (18.44 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 9,669,894 (36.89 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8982	0.9245	0.9112	477
muffin	0.9104	0.8798	0.8949	416
micro avg	0.9037	0.9037	0.9037	893
macro avg	0.9043	0.9022	0.9030	893
weighted avg	0.9039	0.9037	0.9036	893
samples avg	0.9037	0.9037	0.9037	893

trial_64

- *Start Time:* 2024-10-20 12:09:34
- *Duration:* 27.636
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	16
kernel_size2	5
dense_units	128
dropout_rate	0.19587490610702352
learning_rate	0.00021726350694616388

Evaluation Metrics:

	train	val	test
accuracy	0.9500	0.8953	0.9026
precision	0.9500	0.8953	0.9026
recall	0.9500	0.8953	0.9026
f1	0.9500	0.8953	0.9026

Figures:

Model Summary

Model: "sequential"

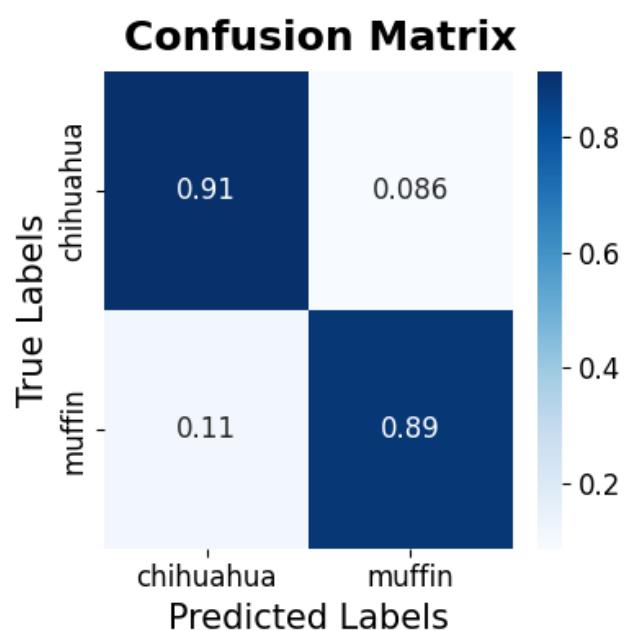
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 16)	51,216
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 16)	0
conv2d_2 (Conv2D)	(None, 25, 25, 16)	6,416
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 16)	0
flatten (Flatten)	(None, 2304)	0
dense (Dense)	(None, 128)	295,040
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 1,119,080 (4.27 MB)

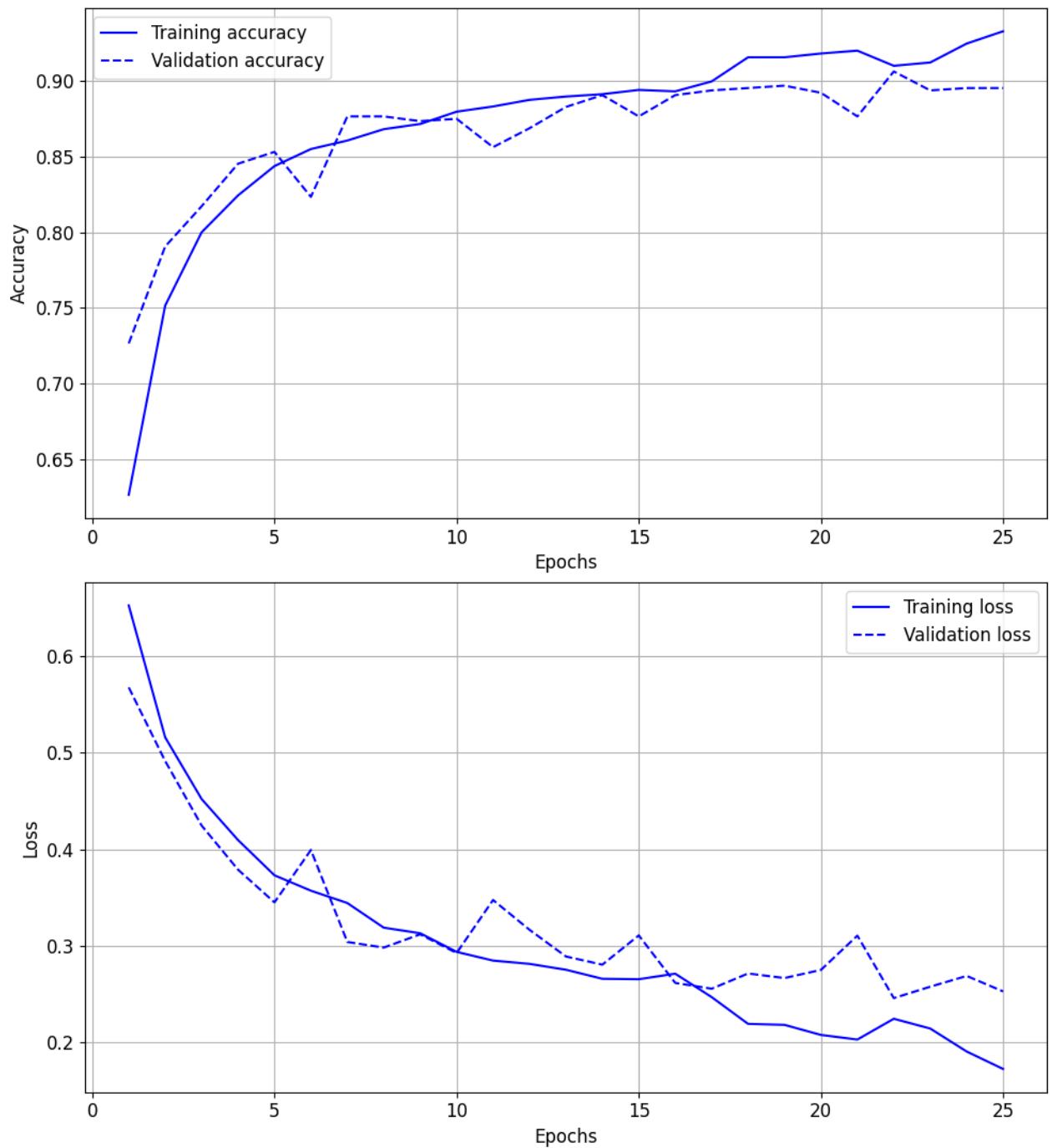
Trainable params: 373,026 (1.42 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 746,054 (2.85 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9046	0.9140	0.9093	477
muffin	0.9002	0.8894	0.8948	416
micro avg	0.9026	0.9026	0.9026	893
macro avg	0.9024	0.9017	0.9020	893
weighted avg	0.9026	0.9026	0.9025	893
samples avg	0.9026	0.9026	0.9026	893

trial_69

- *Start Time:* 2024-10-20 12:12:08
- *Duration:* 33.253
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	512
dropout_rate	0.17657357567634888
learning_rate	4.2044741673961205e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9488	0.9016	0.9026
precision	0.9488	0.9016	0.9026
recall	0.9488	0.9016	0.9026
f1	0.9487	0.9016	0.9026

Figures:

Model Summary

Model: "sequential"

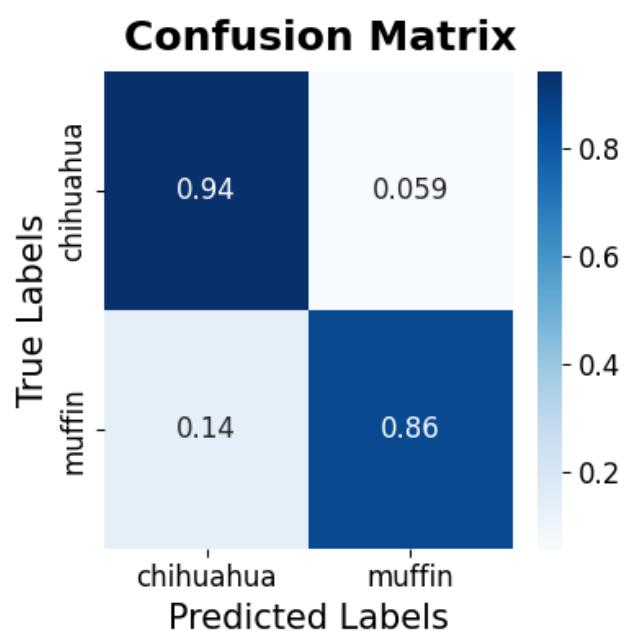
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 512)	3,965,440
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 14,504,840 (55.33 MB)

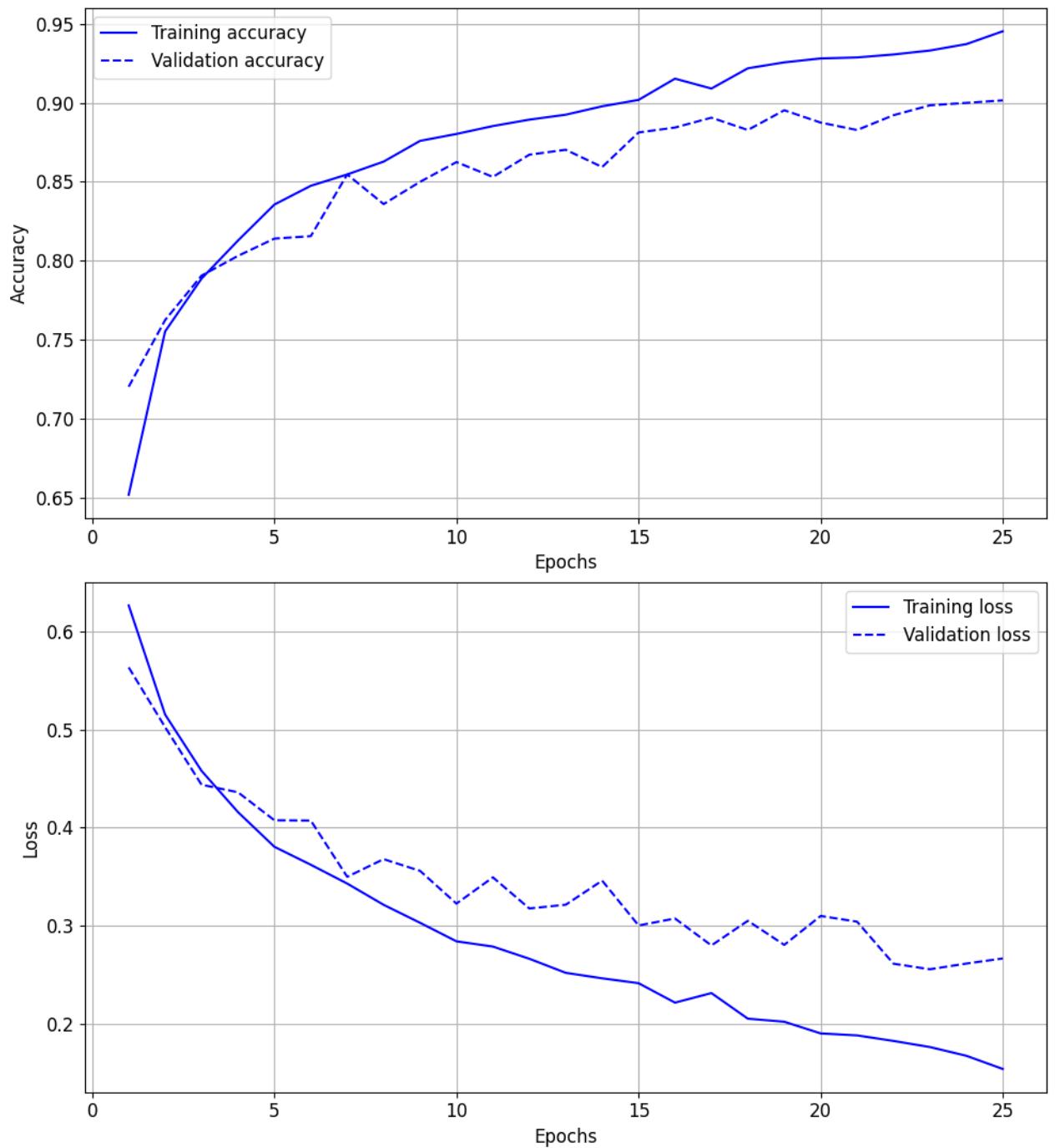
Trainable params: 4,834,946 (18.44 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 9,669,894 (36.89 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8839	0.9413	0.9117	477
muffin	0.9273	0.8582	0.8914	416
micro avg	0.9026	0.9026	0.9026	893
macro avg	0.9056	0.8997	0.9015	893
weighted avg	0.9041	0.9026	0.9022	893
samples avg	0.9026	0.9026	0.9026	893

trial_75

- *Start Time:* 2024-10-20 12:14:47
- *Duration:* 22.093
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.03495886535891242
learning_rate	3.618230837361544e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9172	0.9062	0.9026
precision	0.9172	0.9062	0.9026
recall	0.9172	0.9062	0.9026
f1	0.9172	0.9062	0.9026

Figures:

Model Summary

Model: "sequential"

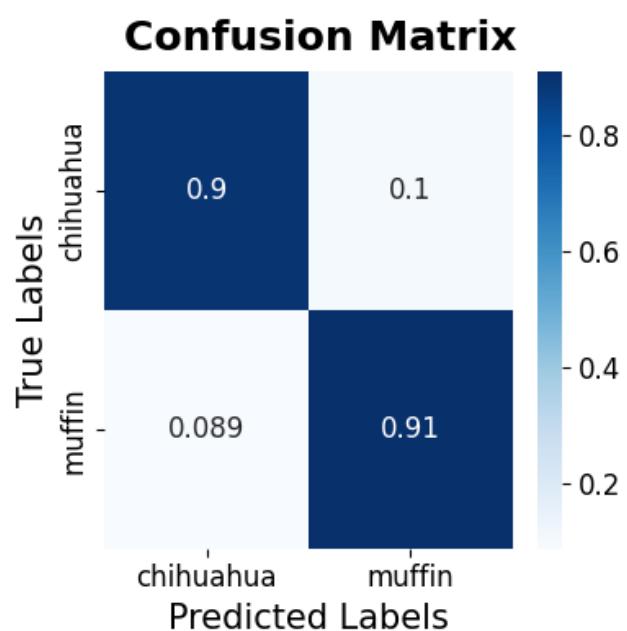
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 64)	1,792
max_pooling2d (MaxPooling2D)	(None, 63, 63, 64)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	200,768
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,234,376 (16.15 MB)

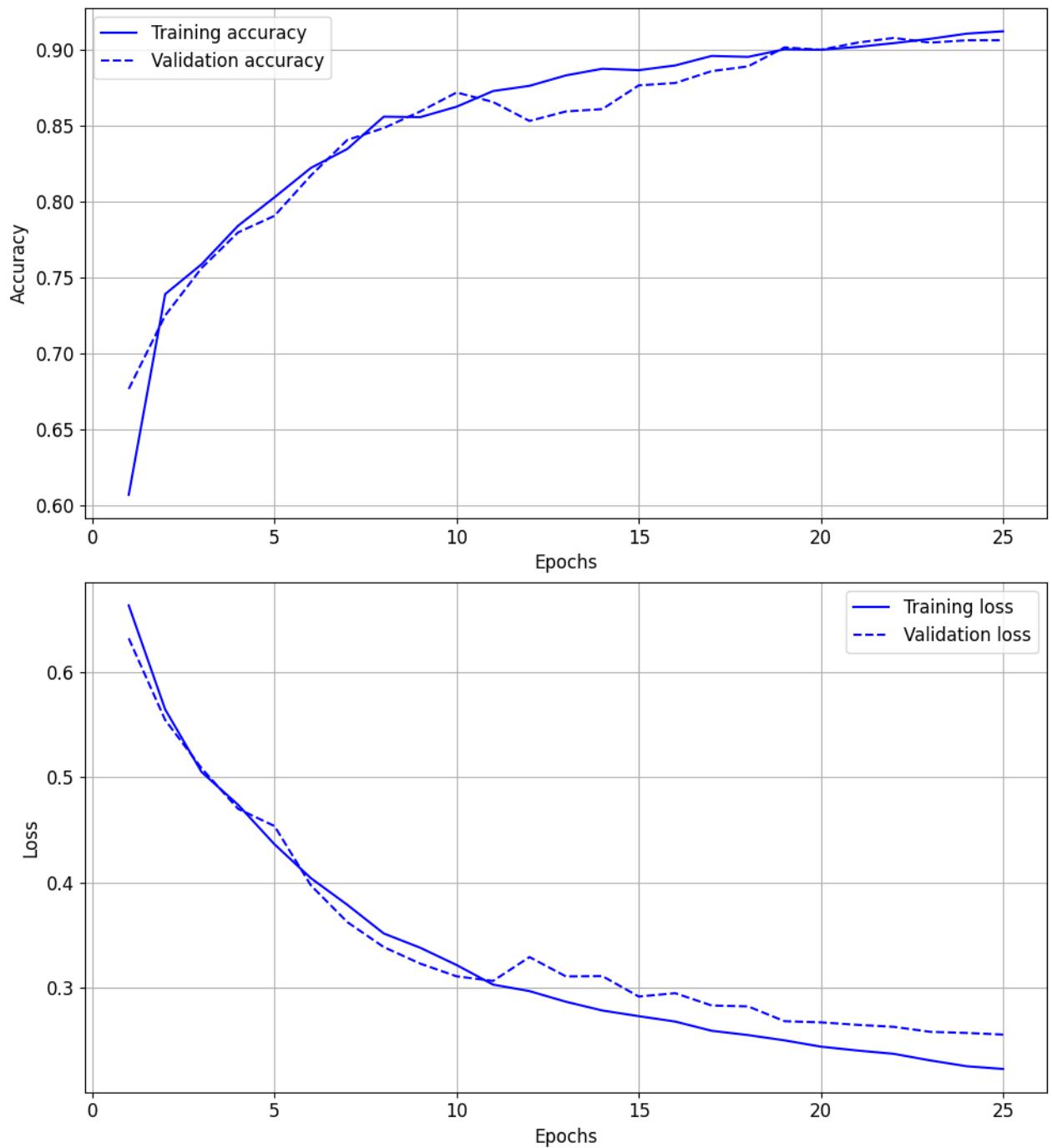
Trainable params: 1,411,458 (5.38 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 2,822,918 (10.77 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9203	0.8952	0.9075	477
muffin	0.8834	0.9111	0.8970	416
micro avg	0.9026	0.9026	0.9026	893
macro avg	0.9019	0.9031	0.9023	893
weighted avg	0.9031	0.9026	0.9027	893
samples avg	0.9026	0.9026	0.9026	893

trial_6

- *Start Time:* 2024-10-20 11:40:52
- *Duration:* 30.614
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	7
units2	16
kernel_size2	5
dense_units	512
dropout_rate	0.4479659514122351
learning_rate	8.164749108419706e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9400	0.8828	0.9015
precision	0.9400	0.8828	0.9015
recall	0.9400	0.8828	0.9015
f1	0.9400	0.8828	0.9015

Figures:

Model Summary

Model: "sequential"

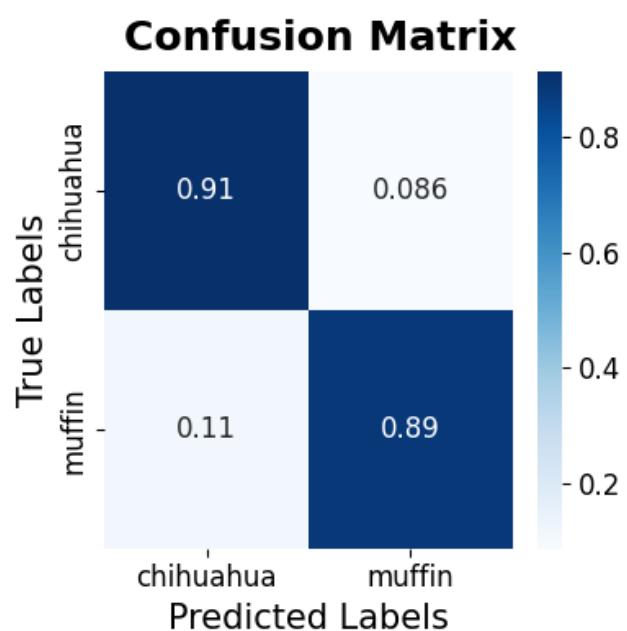
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 122, 122, 128)	18,944
max_pooling2d (MaxPooling2D)	(None, 61, 61, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 16)	51,216
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 16)	0
conv2d_2 (Conv2D)	(None, 24, 24, 16)	6,416
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 16)	0
flatten (Flatten)	(None, 2304)	0
dense (Dense)	(None, 512)	1,180,160
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 4,561,256 (17.40 MB)

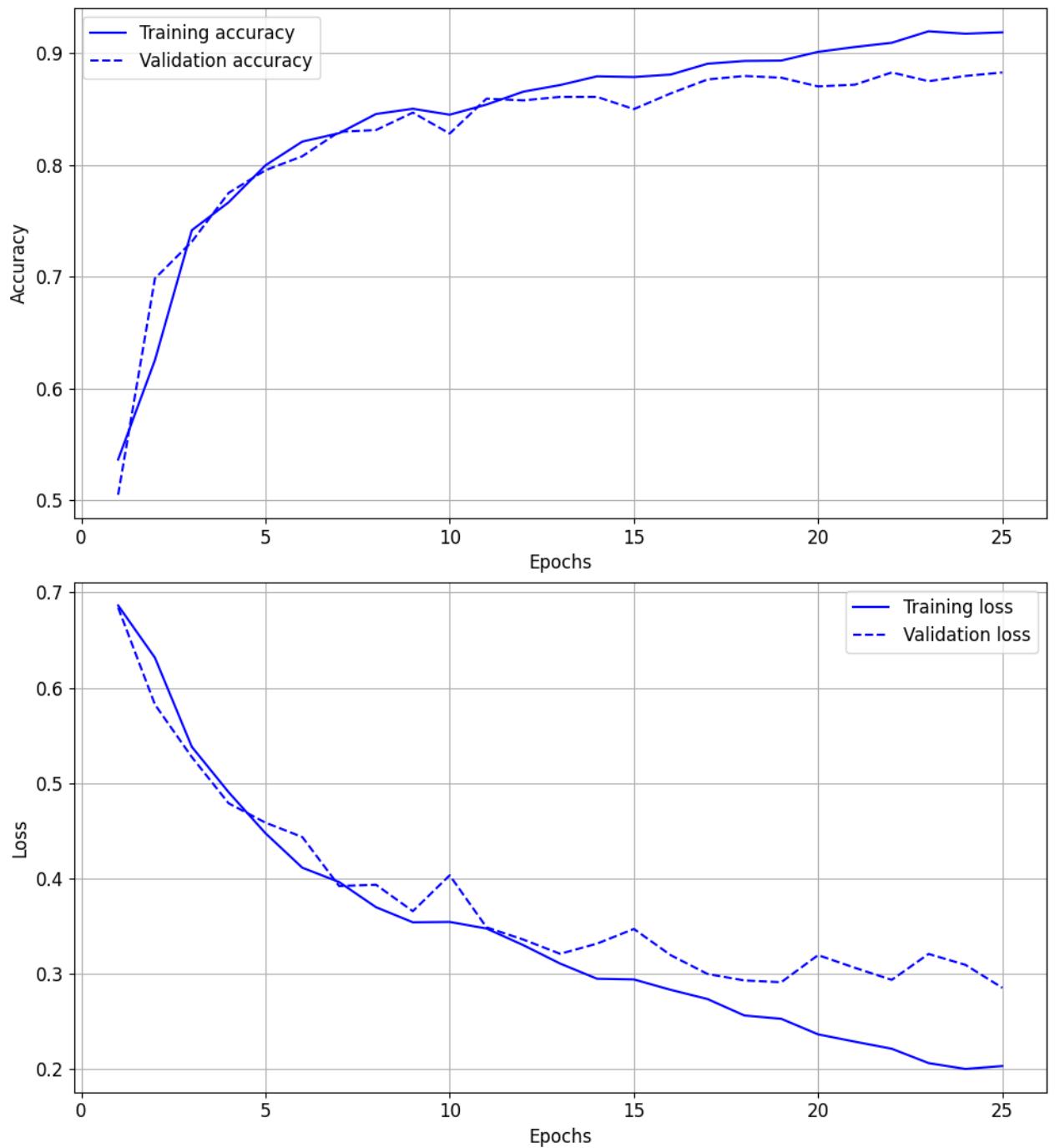
Trainable params: 1,520,418 (5.80 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,040,838 (11.60 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9027	0.9140	0.9083	477
muffin	0.9000	0.8870	0.8935	416
micro avg	0.9015	0.9015	0.9015	893
macro avg	0.9013	0.9005	0.9009	893
weighted avg	0.9014	0.9015	0.9014	893
samples avg	0.9015	0.9015	0.9015	893

trial_42

- *Start Time:* 2024-10-20 11:57:04
- *Duration:* 32.946
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.11006800945002276
learning_rate	7.187335450648665e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9344	0.8953	0.9015
precision	0.9344	0.8953	0.9015
recall	0.9344	0.8953	0.9015
f1	0.9344	0.8953	0.9015

Figures:

Model Summary

Model: "sequential"

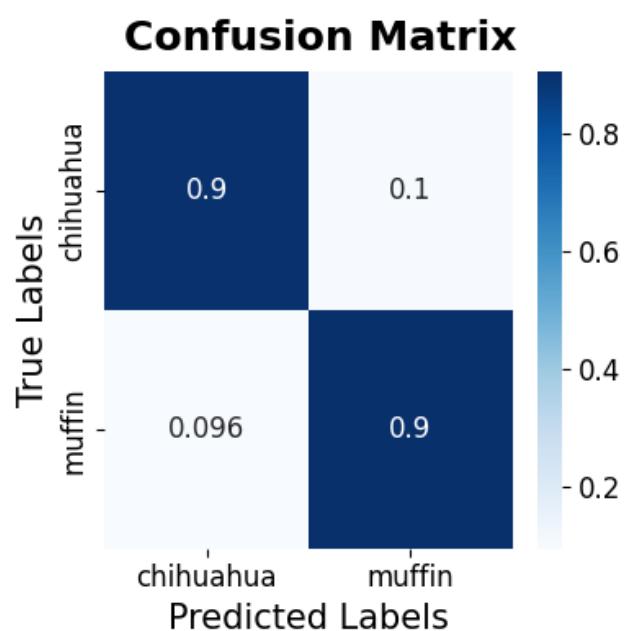
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

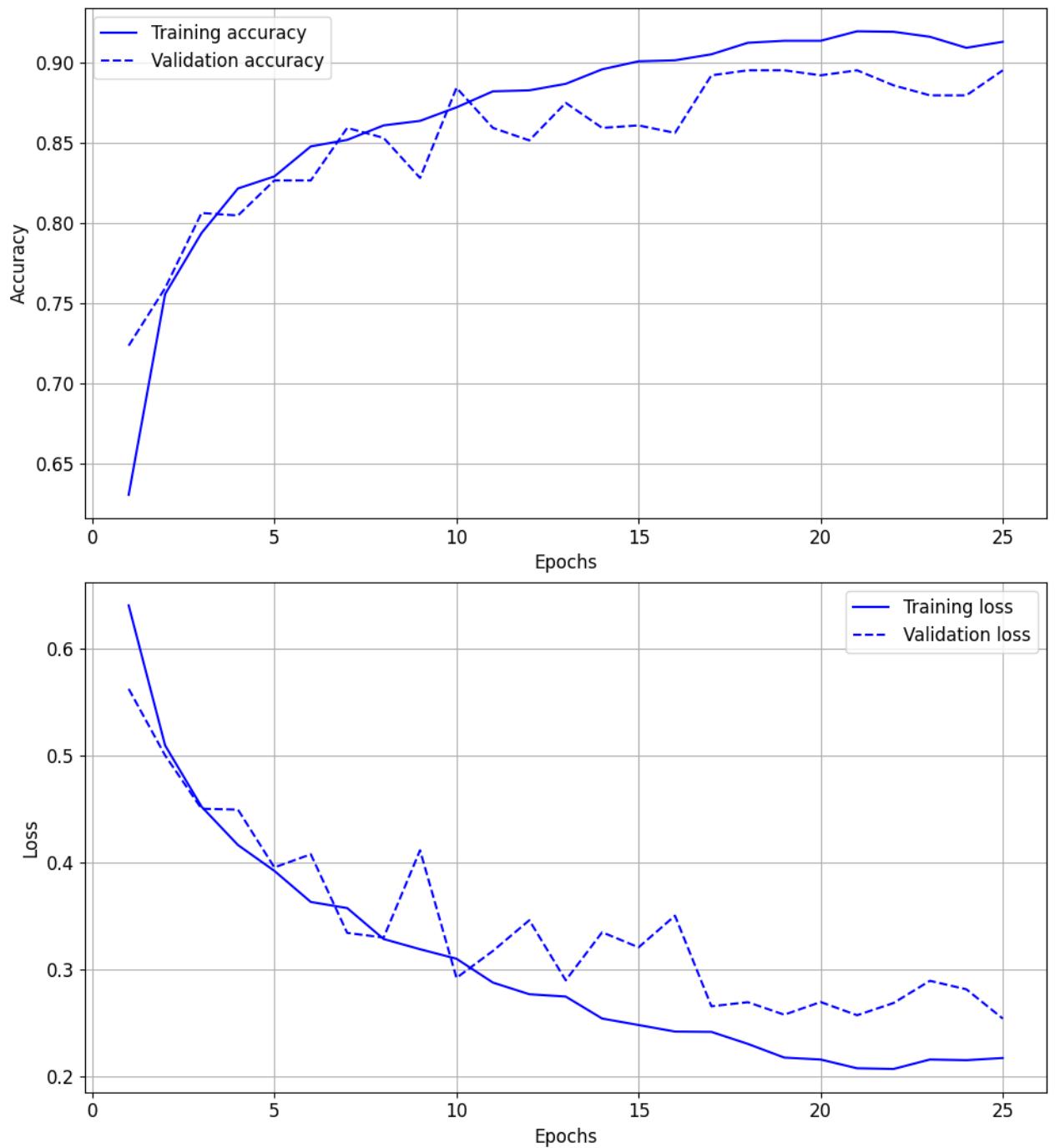
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9147	0.8994	0.9070	477
muffin	0.8868	0.9038	0.8952	416
micro avg	0.9015	0.9015	0.9015	893
macro avg	0.9008	0.9016	0.9011	893
weighted avg	0.9017	0.9015	0.9015	893
samples avg	0.9015	0.9015	0.9015	893

trial_49

- *Start Time:* 2024-10-20 12:01:08
- *Duration:* 33.255
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.2282736343656356
learning_rate	4.944510475178199e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9366	0.9062	0.9015
precision	0.9366	0.9062	0.9015
recall	0.9366	0.9062	0.9015
f1	0.9366	0.9062	0.9015

Figures:

Model Summary

Model: "sequential"

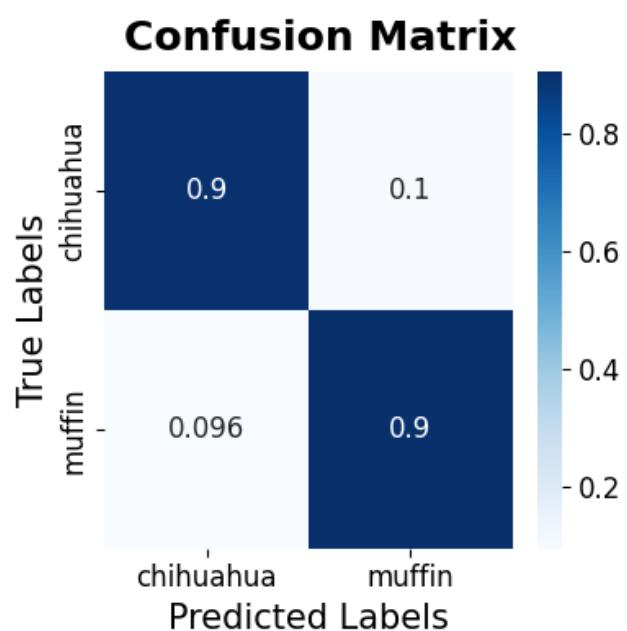
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,964,552 (30.38 MB)

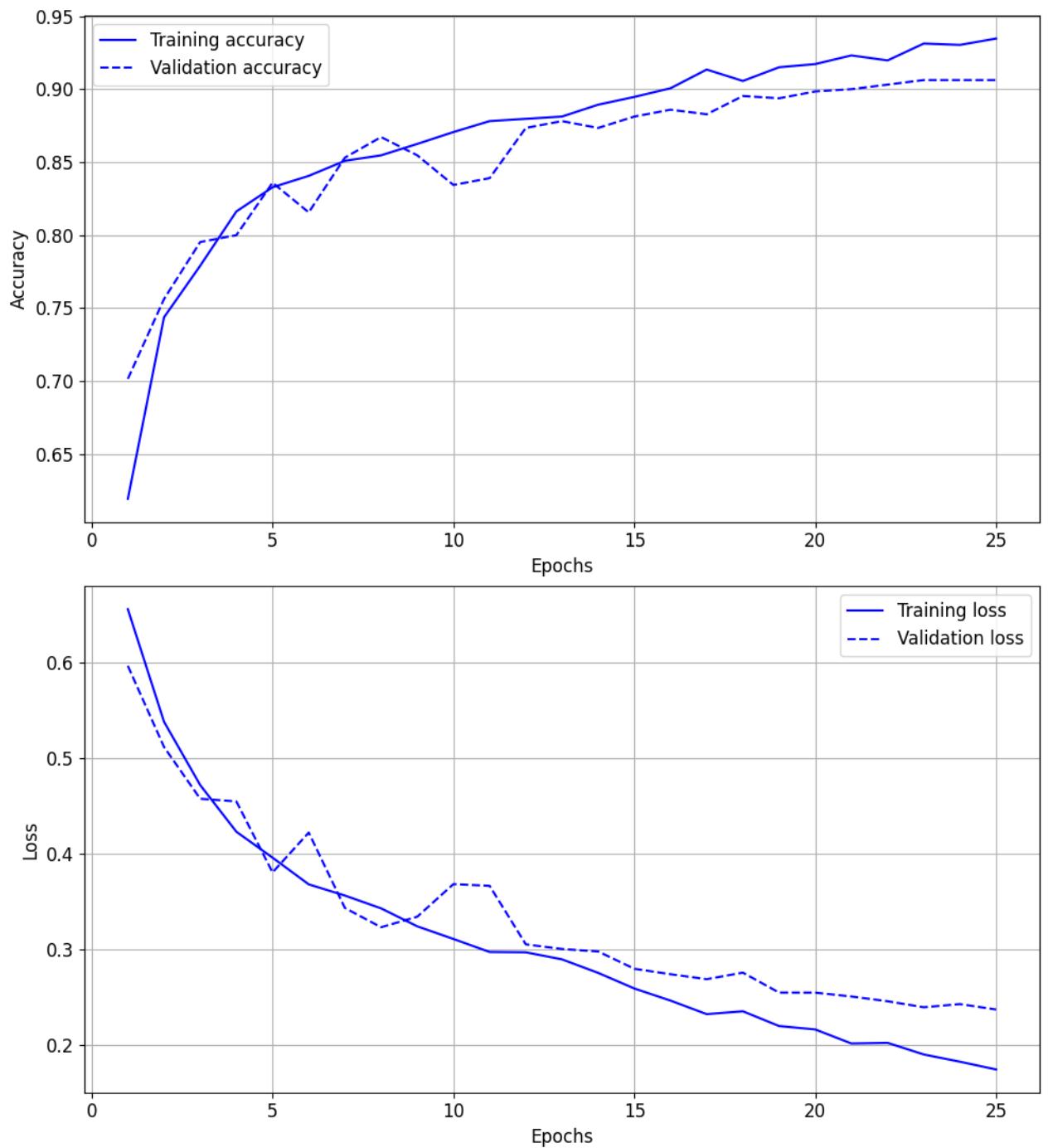
Trainable params: 2,654,850 (10.13 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,309,702 (20.25 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9147	0.8994	0.9070	477
muffin	0.8868	0.9038	0.8952	416
micro avg	0.9015	0.9015	0.9015	893
macro avg	0.9008	0.9016	0.9011	893
weighted avg	0.9017	0.9015	0.9015	893
samples avg	0.9015	0.9015	0.9015	893

trial_86

- *Start Time:* 2024-10-20 12:20:59
- *Duration:* 30.120
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	256
dropout_rate	0.08085252713315207
learning_rate	0.00010667985375957958

Evaluation Metrics:

	train	val	test
accuracy	0.9744	0.8891	0.9015
precision	0.9744	0.8891	0.9015
recall	0.9744	0.8891	0.9015
f1	0.9744	0.8891	0.9015

Figures:

Model Summary

Model: "sequential"

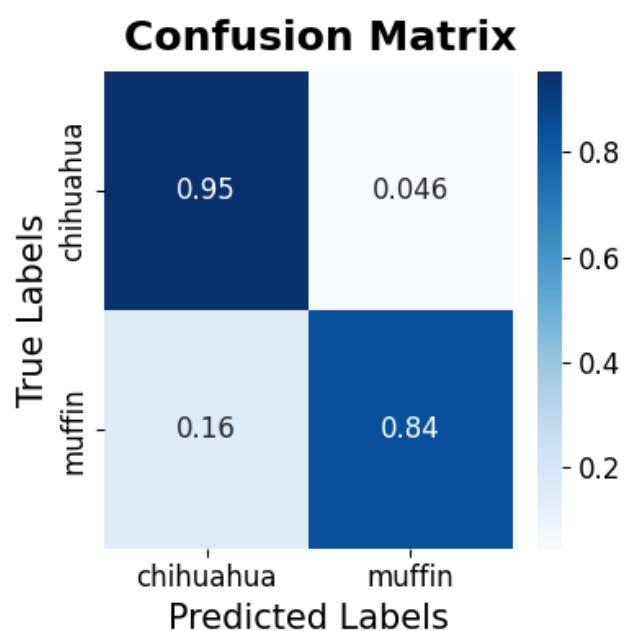
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 256)	2,359,552
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 8,210,312 (31.32 MB)

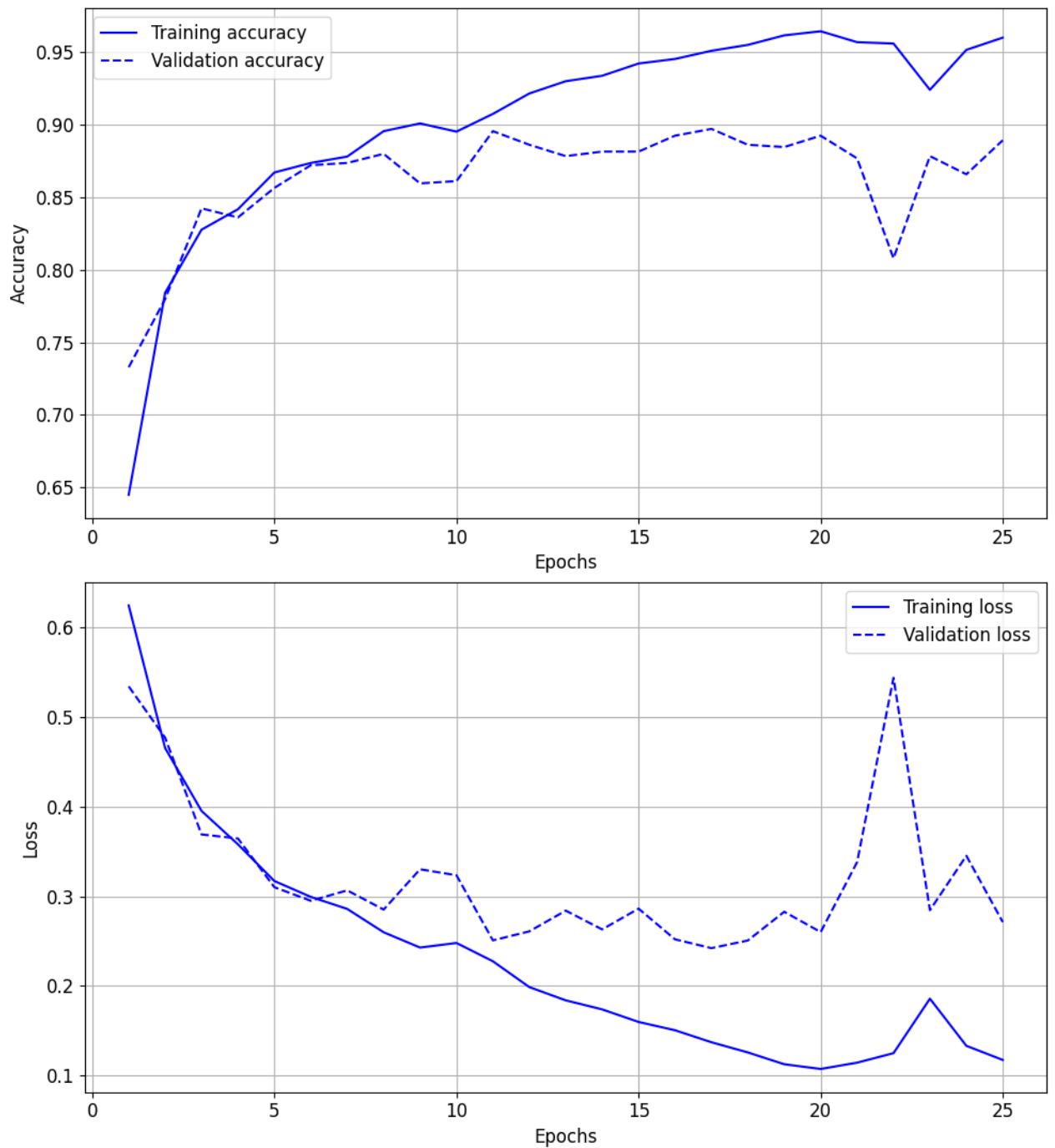
Trainable params: 2,736,770 (10.44 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,473,542 (20.88 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8733	0.9539	0.9118	477
muffin	0.9409	0.8413	0.8883	416
micro avg	0.9015	0.9015	0.9015	893
macro avg	0.9071	0.8976	0.9001	893
weighted avg	0.9048	0.9015	0.9009	893
samples avg	0.9015	0.9015	0.9015	893

trial_51

- *Start Time:* 2024-10-20 12:02:16
- *Duration:* 33.666
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	5
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.275898129443553
learning_rate	0.00027195660598710605

Evaluation Metrics:

	train	val	test
accuracy	0.9981	0.8953	0.9003
precision	0.9981	0.8953	0.9003
recall	0.9981	0.8953	0.9003
f1	0.9981	0.8953	0.9003

Figures:

Model Summary

Model: "sequential"

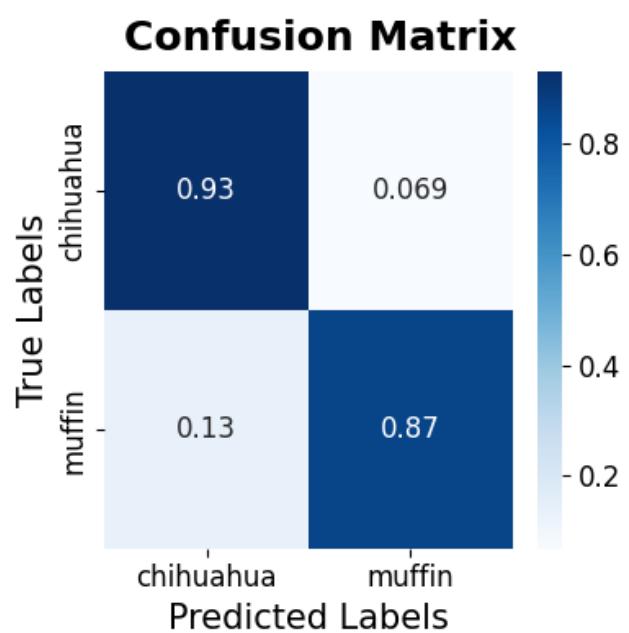
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 128)	9,728
max_pooling2d (MaxPooling2D)	(None, 62, 62, 128)	0
conv2d_1 (Conv2D)	(None, 56, 56, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,982,984 (30.45 MB)

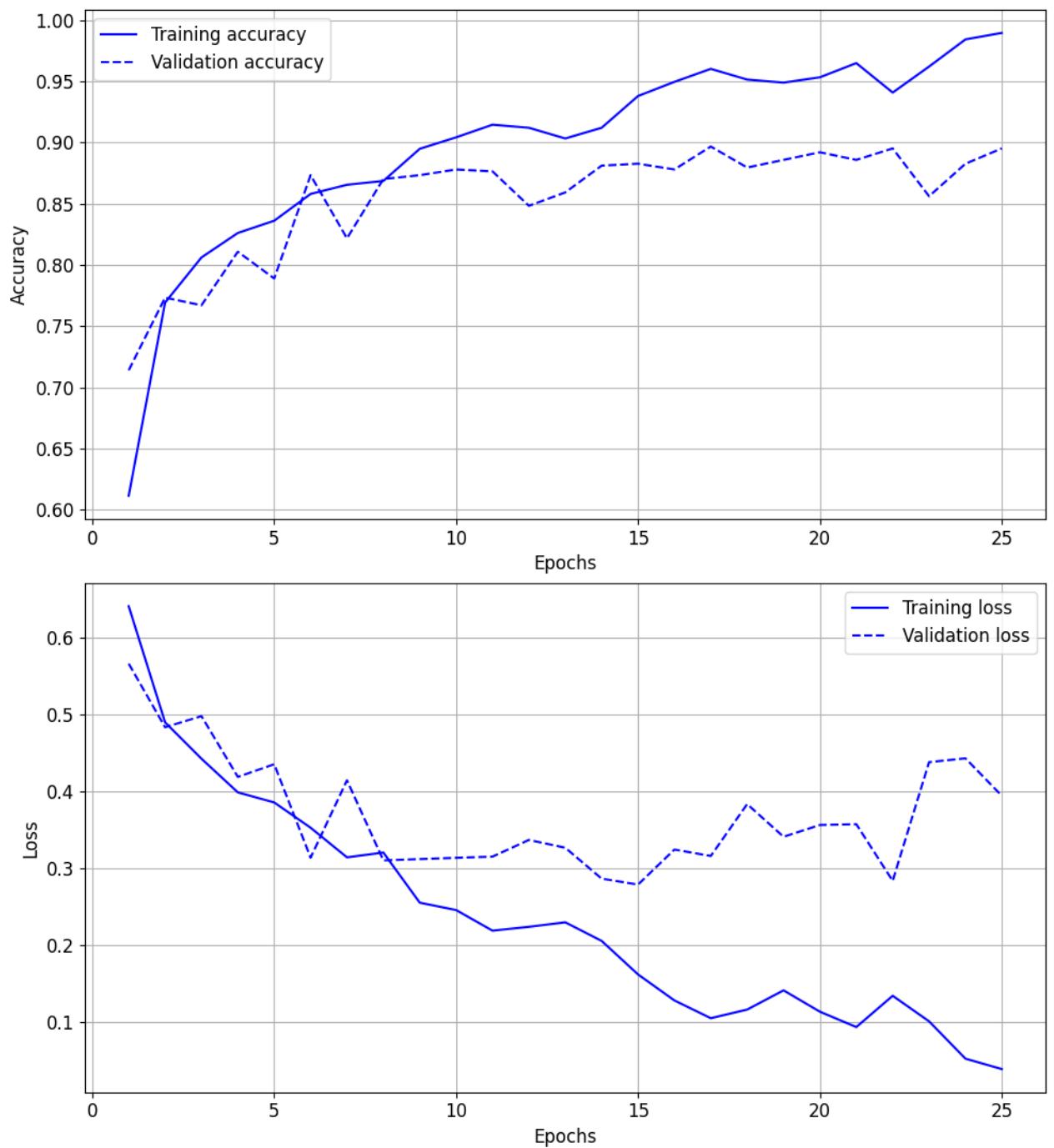
Trainable params: 2,660,994 (10.15 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,321,990 (20.30 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8880	0.9308	0.9089	477
muffin	0.9160	0.8654	0.8900	416
micro avg	0.9003	0.9003	0.9003	893
macro avg	0.9020	0.8981	0.8994	893
weighted avg	0.9011	0.9003	0.9001	893
samples avg	0.9003	0.9003	0.9003	893

[trial_58](#)

- *Start Time:* 2024-10-20 12:06:16
- *Duration:* 34.115
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	32
kernel_size2	7
dense_units	512
dropout_rate	0.3145021386975546
learning_rate	4.85825521931806e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9347	0.8875	0.9003
precision	0.9347	0.8875	0.9003
recall	0.9347	0.8875	0.9003
f1	0.9347	0.8875	0.9003

Figures:

Model Summary

Model: "sequential"

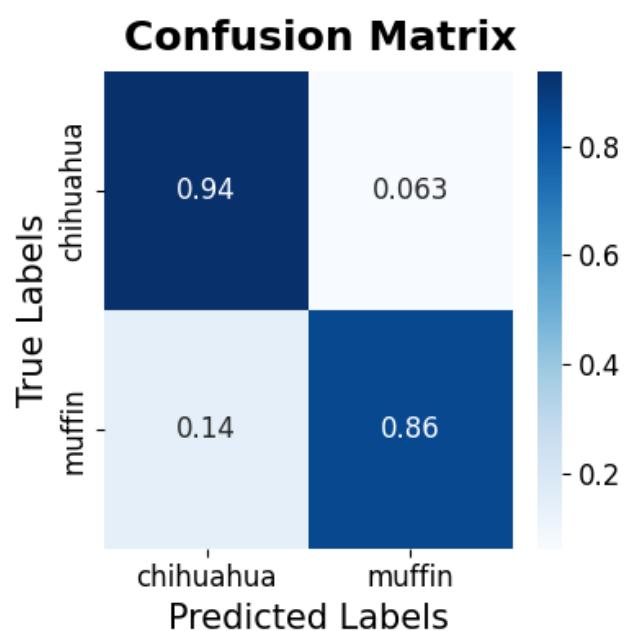
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 32)	200,736
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 32)	0
conv2d_2 (Conv2D)	(None, 22, 22, 32)	50,208
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 32)	0
flatten (Flatten)	(None, 3872)	0
dense (Dense)	(None, 512)	1,982,976
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 7,503,560 (28.62 MB)

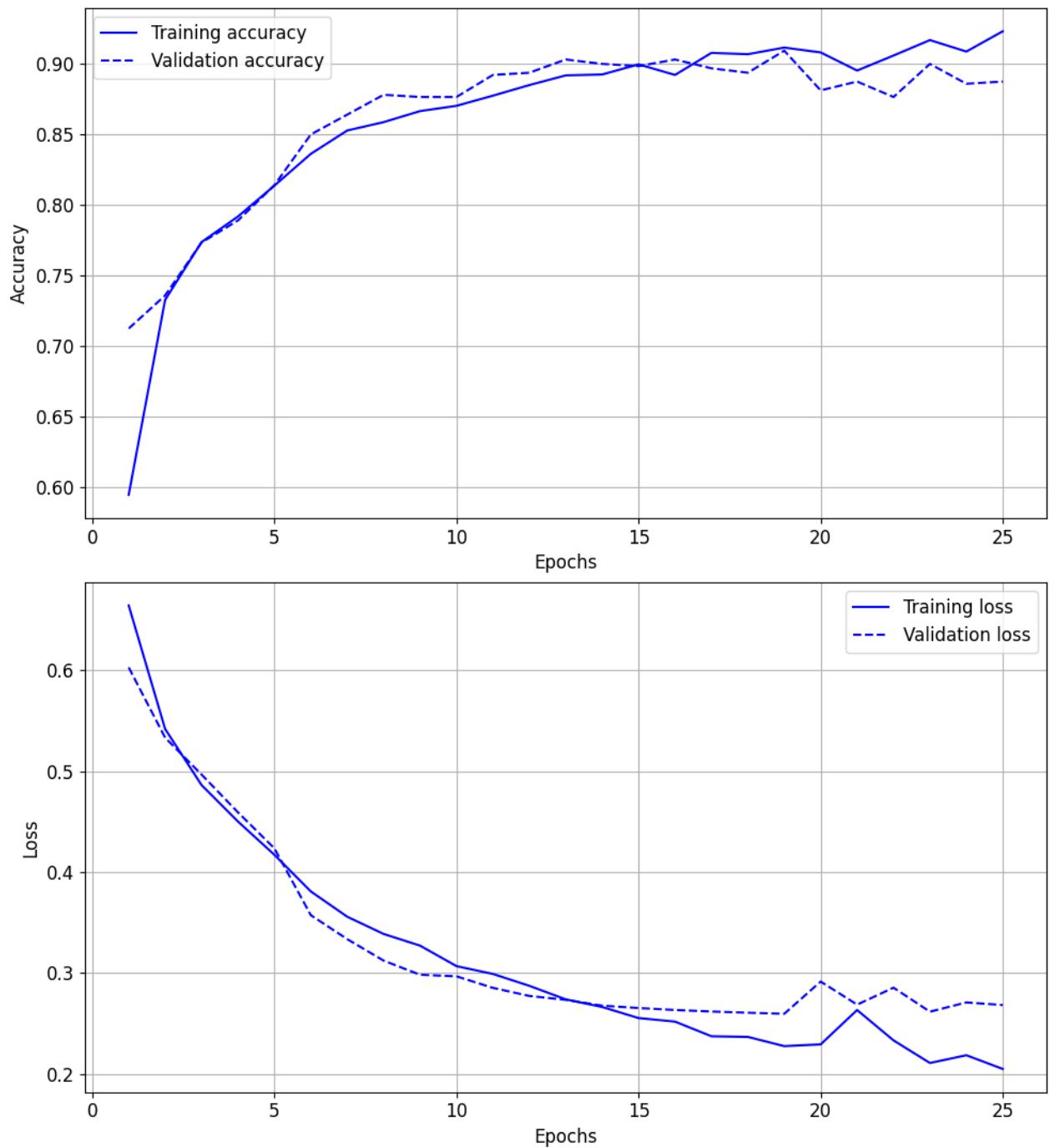
Trainable params: 2,501,186 (9.54 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,002,374 (19.08 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8834	0.9371	0.9095	477
muffin	0.9225	0.8582	0.8892	416
micro avg	0.9003	0.9003	0.9003	893
macro avg	0.9029	0.8976	0.8993	893
weighted avg	0.9016	0.9003	0.9000	893
samples avg	0.9003	0.9003	0.9003	893

trial_79

- *Start Time:* 2024-10-20 12:16:54
- *Duration:* 34.768
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	5
units2	32
kernel_size2	7
dense_units	256
dropout_rate	0.22677122482282125
learning_rate	0.0001639830135276586

Evaluation Metrics:

	train	val	test
accuracy	0.9653	0.8953	0.9003
precision	0.9653	0.8953	0.9003
recall	0.9653	0.8953	0.9003
f1	0.9653	0.8953	0.9003

Figures:

Model Summary

Model: "sequential"

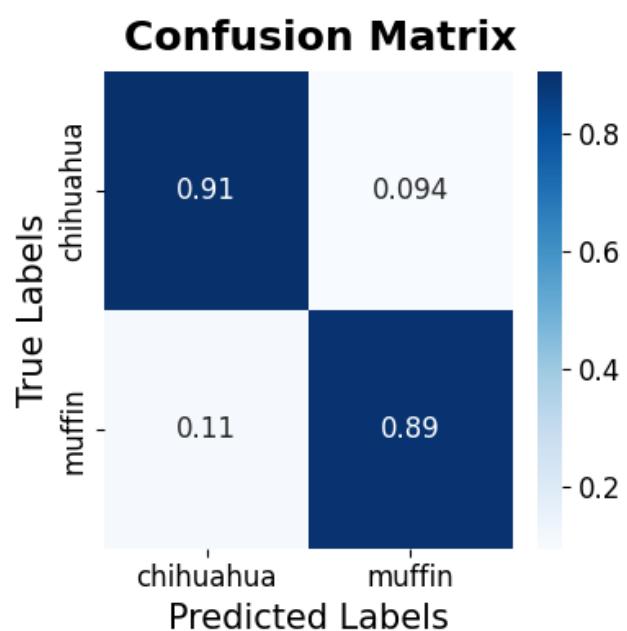
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 128)	9,728
max_pooling2d (MaxPooling2D)	(None, 62, 62, 128)	0
conv2d_1 (Conv2D)	(None, 56, 56, 32)	200,736
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 32)	0
conv2d_2 (Conv2D)	(None, 22, 22, 32)	50,208
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 32)	0
flatten (Flatten)	(None, 3872)	0
dense (Dense)	(None, 256)	991,488
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 3,955,400 (15.09 MB)

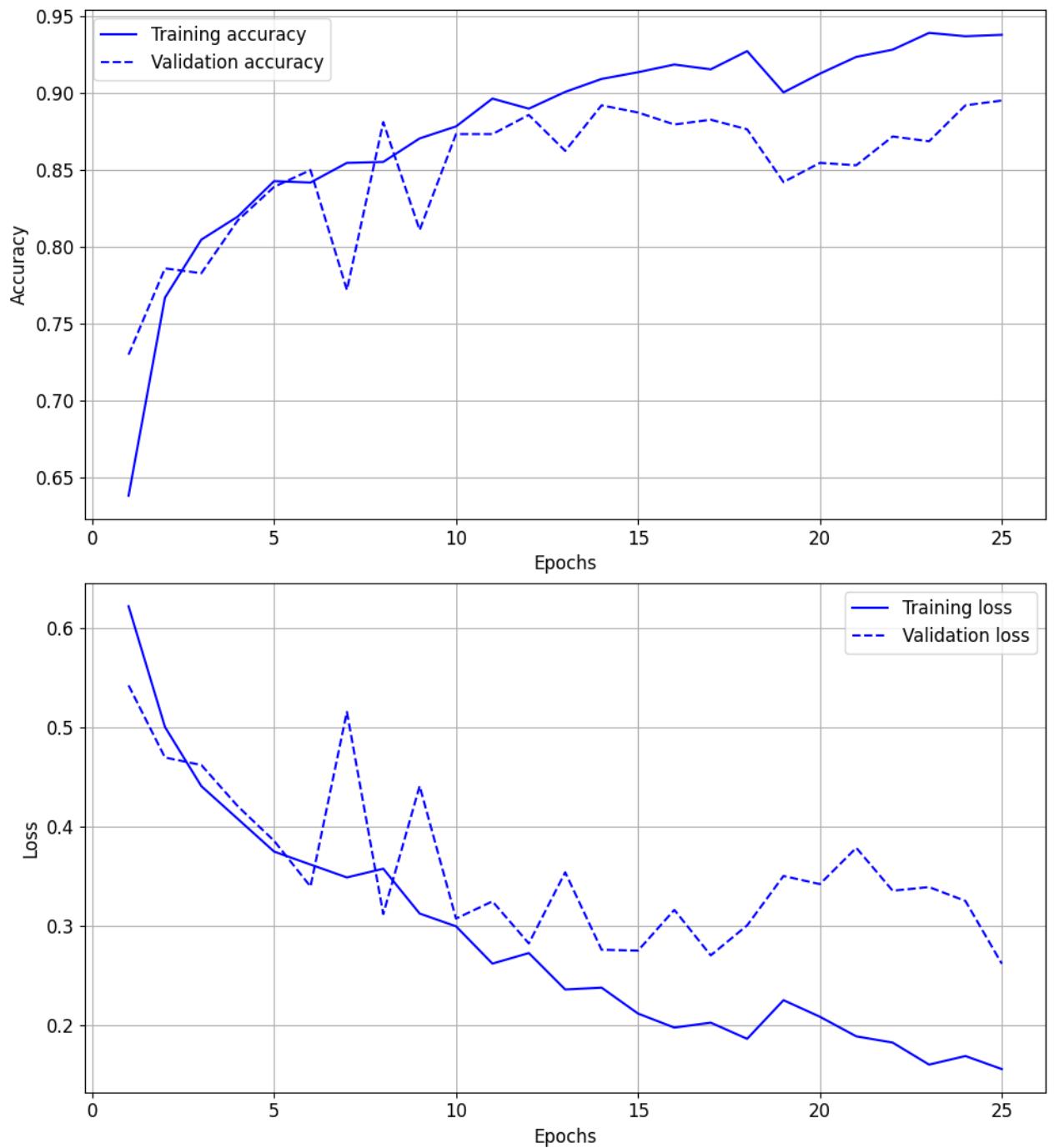
Trainable params: 1,318,466 (5.03 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 2,636,934 (10.06 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9076	0.9057	0.9066	477
muffin	0.8921	0.8942	0.8932	416
micro avg	0.9003	0.9003	0.9003	893
macro avg	0.8998	0.8999	0.8999	893
weighted avg	0.9004	0.9003	0.9003	893
samples avg	0.9003	0.9003	0.9003	893

trial_96

- *Start Time:* 2024-10-20 12:26:25
- *Duration:* 32.818
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.2323006995235076
learning_rate	3.915319880575726e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9231	0.9016	0.9003
precision	0.9231	0.9016	0.9003
recall	0.9231	0.9016	0.9003
f1	0.9231	0.9016	0.9003

Figures:

Model Summary

Model: "sequential"

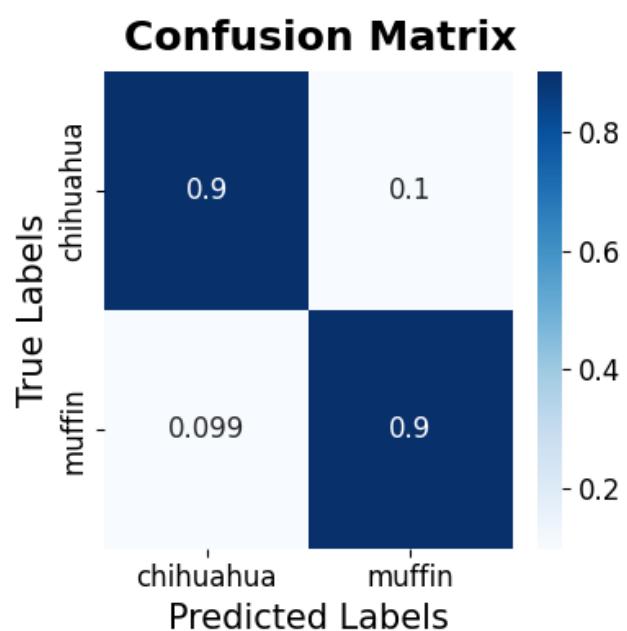
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

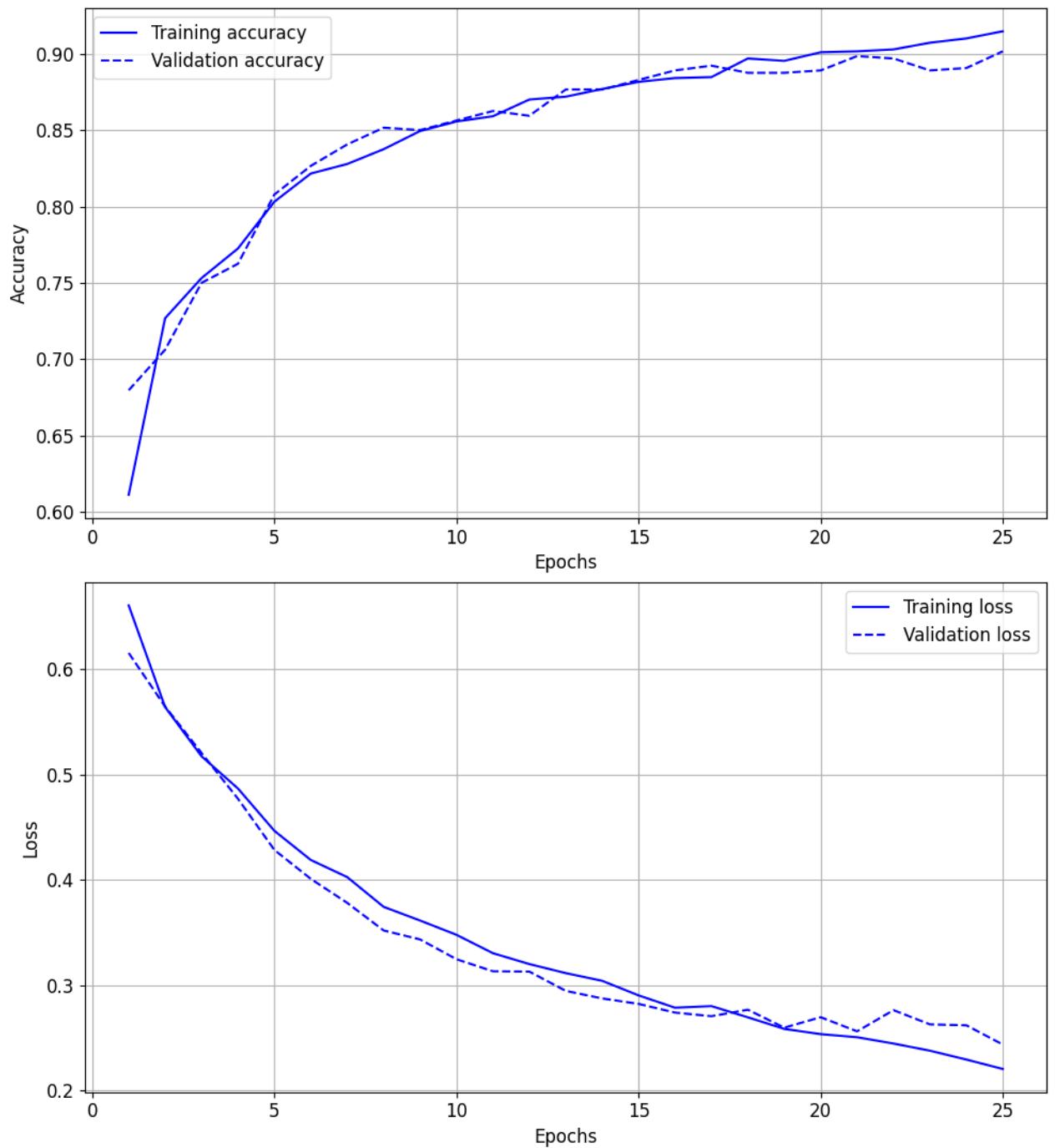
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9128	0.8994	0.9060	477
muffin	0.8865	0.9014	0.8939	416
micro avg	0.9003	0.9003	0.9003	893
macro avg	0.8996	0.9004	0.9000	893
weighted avg	0.9005	0.9003	0.9004	893
samples avg	0.9003	0.9003	0.9003	893

trial_84

- *Start Time:* 2024-10-20 12:19:56
- *Duration:* 35.254
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	7
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.10612026447266612
learning_rate	9.02728410707301e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9563	0.8844	0.8992
precision	0.9563	0.8844	0.8992
recall	0.9563	0.8844	0.8992
f1	0.9562	0.8844	0.8992

Figures:

Model Summary

Model: "sequential"

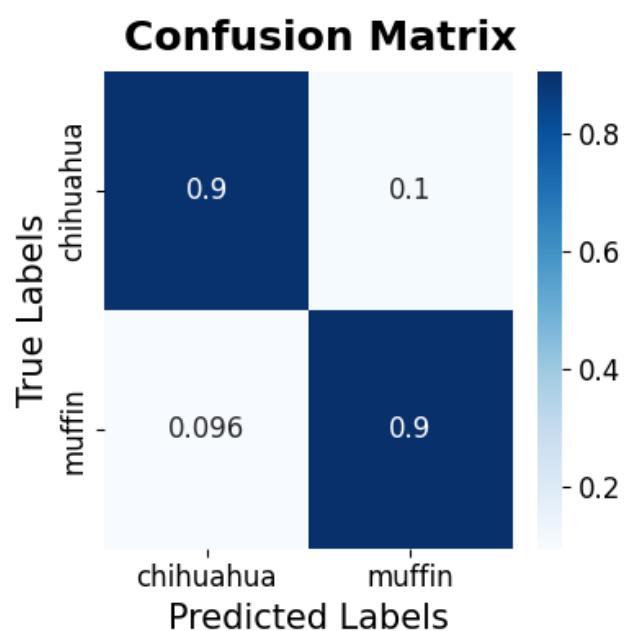
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 122, 122, 128)	18,944
max_pooling2d (MaxPooling2D)	(None, 61, 61, 128)	0
conv2d_1 (Conv2D)	(None, 55, 55, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 27, 27, 64)	0
conv2d_2 (Conv2D)	(None, 21, 21, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 10, 10, 64)	0
flatten (Flatten)	(None, 6400)	0
dense (Dense)	(None, 128)	819,328
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,371,848 (16.68 MB)

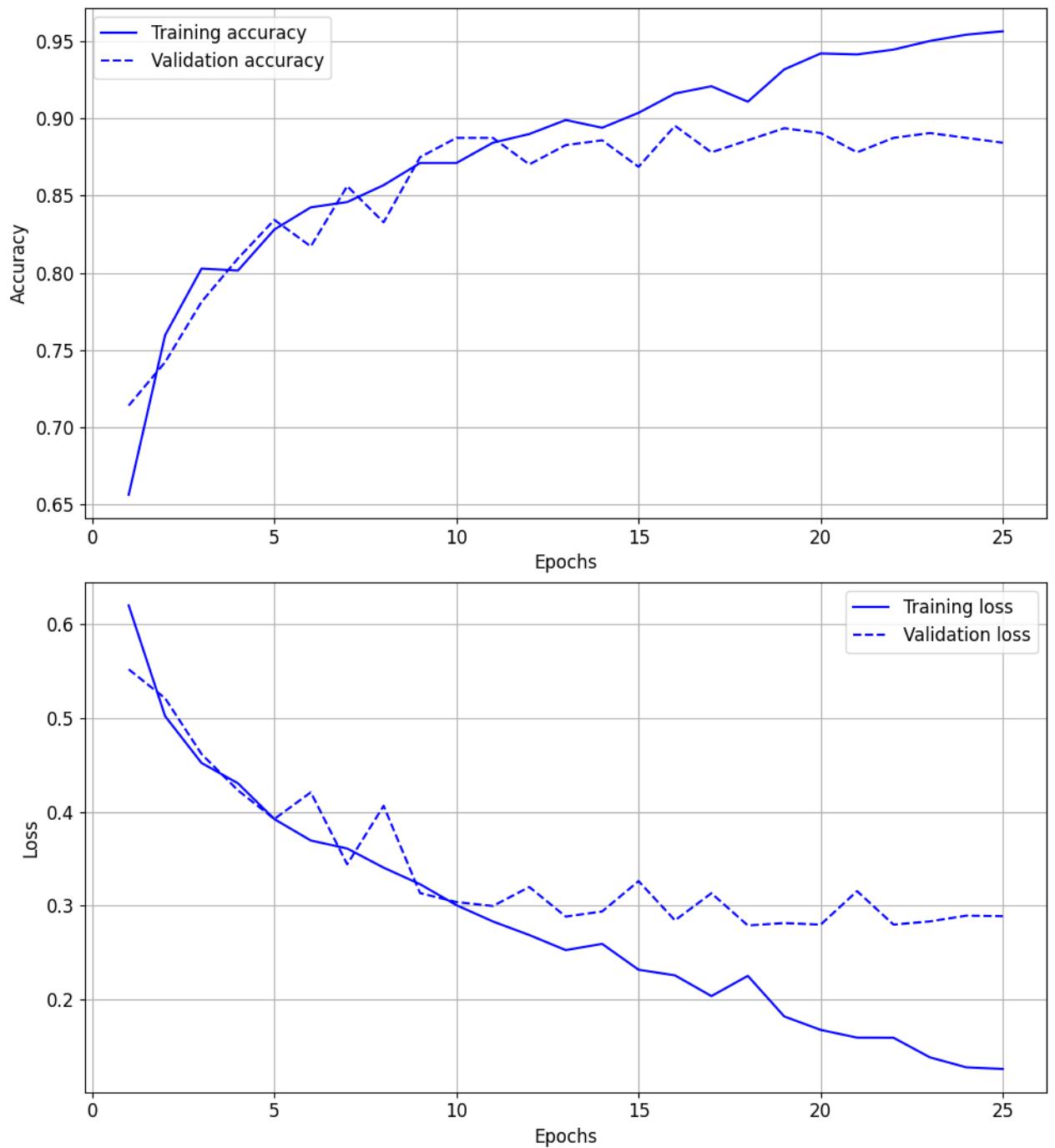
Trainable params: 1,457,282 (5.56 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 2,914,566 (11.12 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9143	0.8952	0.9047	477
muffin	0.8826	0.9038	0.8931	416
micro avg	0.8992	0.8992	0.8992	893
macro avg	0.8985	0.8995	0.8989	893
weighted avg	0.8996	0.8992	0.8993	893
samples avg	0.8992	0.8992	0.8992	893

trial_29

- *Start Time:* 2024-10-20 11:50:26
- *Duration:* 25.695
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.21662157999261966
learning_rate	6.836396362949168e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9403	0.8922	0.8981
precision	0.9403	0.8922	0.8981
recall	0.9403	0.8922	0.8981
f1	0.9403	0.8922	0.8981

Figures:

Model Summary

Model: "sequential"

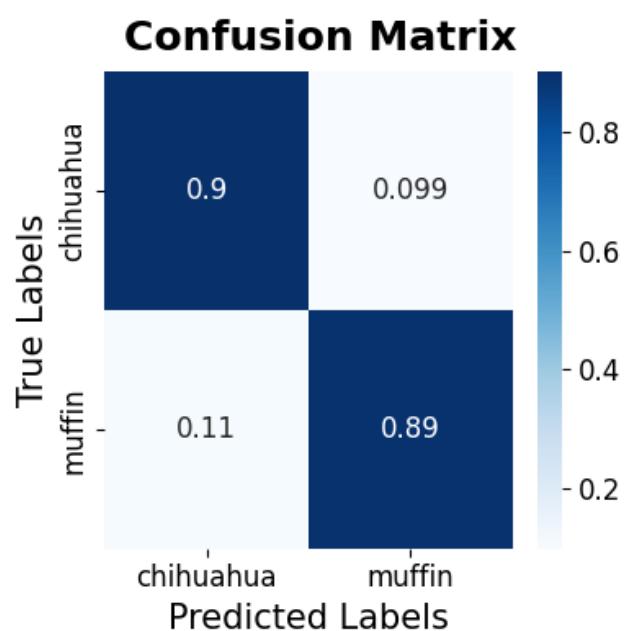
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 64)	1,792
max_pooling2d (MaxPooling2D)	(None, 63, 63, 64)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	200,768
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,234,376 (16.15 MB)

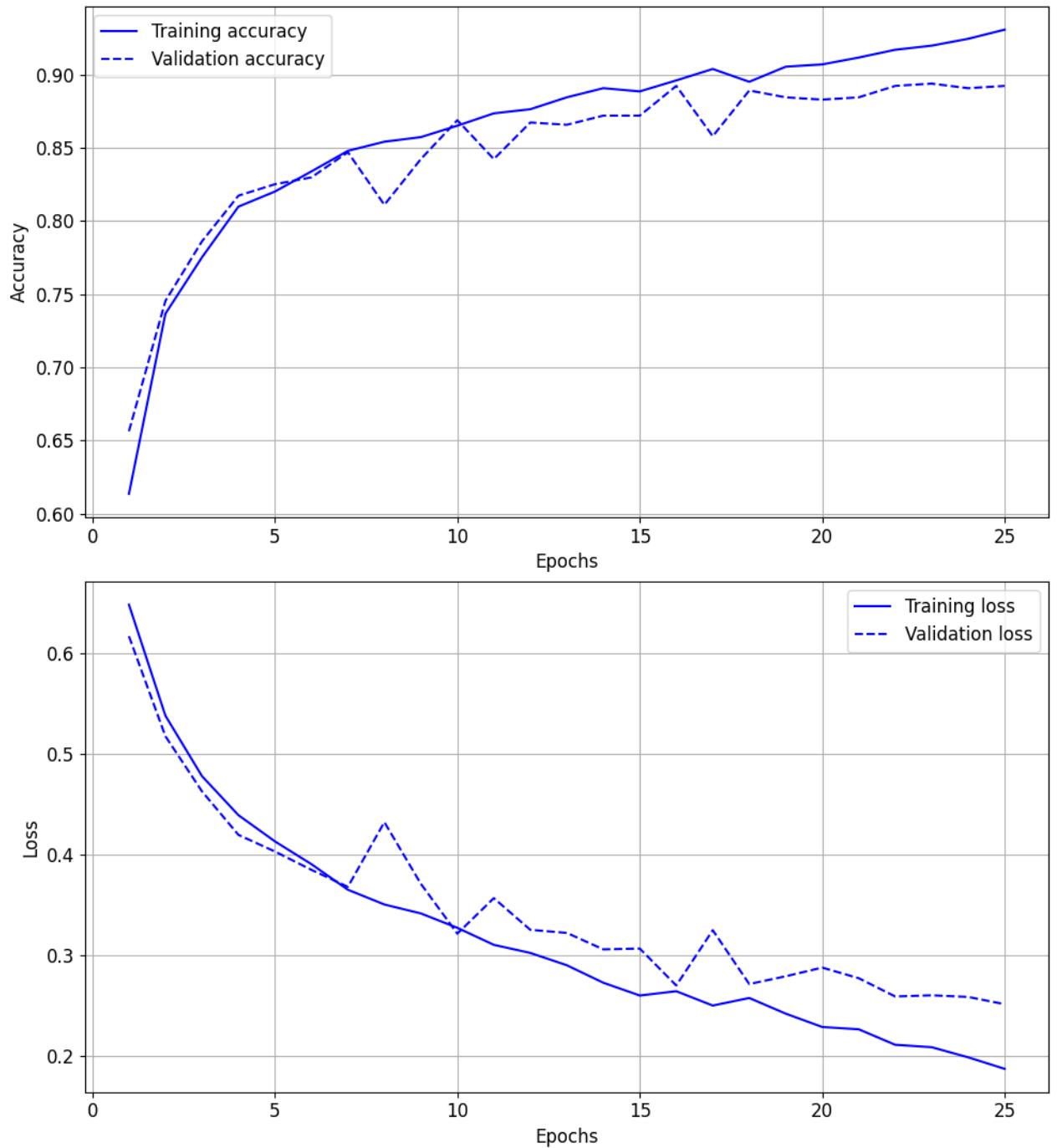
Trainable params: 1,411,458 (5.38 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 2,822,918 (10.77 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9072	0.9015	0.9043	477
muffin	0.8878	0.8942	0.8910	416
micro avg	0.8981	0.8981	0.8981	893
macro avg	0.8975	0.8978	0.8977	893
weighted avg	0.8982	0.8981	0.8981	893
samples avg	0.8981	0.8981	0.8981	893

trial_43

- *Start Time:* 2024-10-20 11:57:38
- *Duration:* 32.843
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.22658249616425533
learning_rate	7.736611913451819e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9400	0.9062	0.8981
precision	0.9400	0.9062	0.8981
recall	0.9400	0.9062	0.8981
f1	0.9400	0.9062	0.8981

Figures:

Model Summary

Model: "sequential"

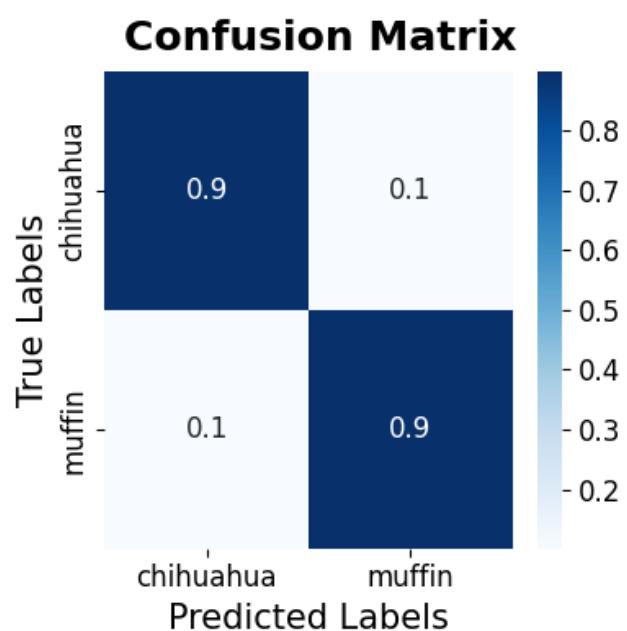
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

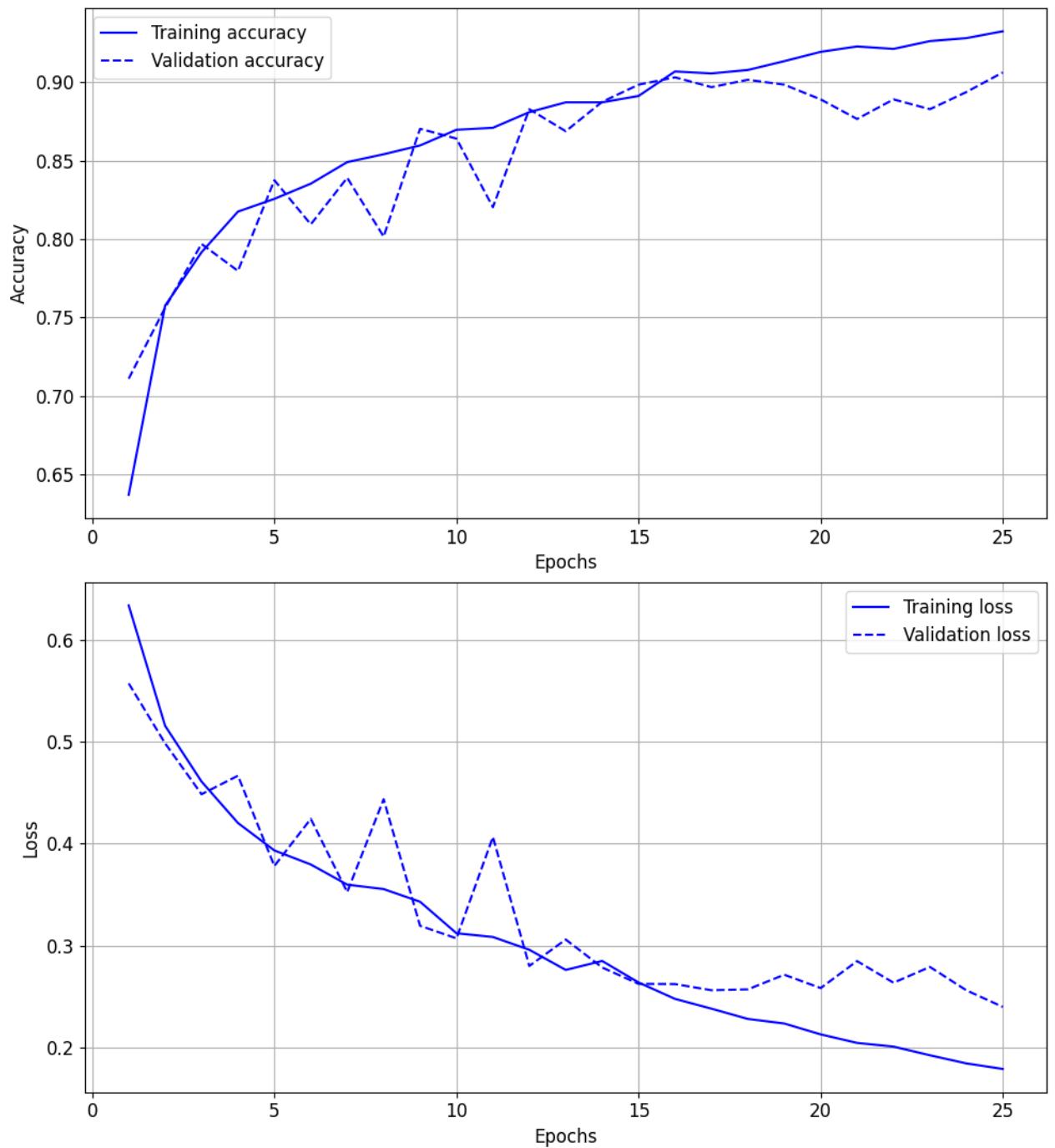
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9106	0.8973	0.9039	477
muffin	0.8842	0.8990	0.8915	416
micro avg	0.8981	0.8981	0.8981	893
macro avg	0.8974	0.8982	0.8977	893
weighted avg	0.8983	0.8981	0.8981	893
samples avg	0.8981	0.8981	0.8981	893

trial_46

- *Start Time:* 2024-10-20 11:59:19
- *Duration:* 32.868
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.036544088621522246
learning_rate	0.00013457145748833213

Evaluation Metrics:

	train	val	test
accuracy	0.9828	0.9016	0.8981
precision	0.9828	0.9016	0.8981
recall	0.9828	0.9016	0.8981
f1	0.9828	0.9016	0.8981

Figures:

Model Summary

Model: "sequential"

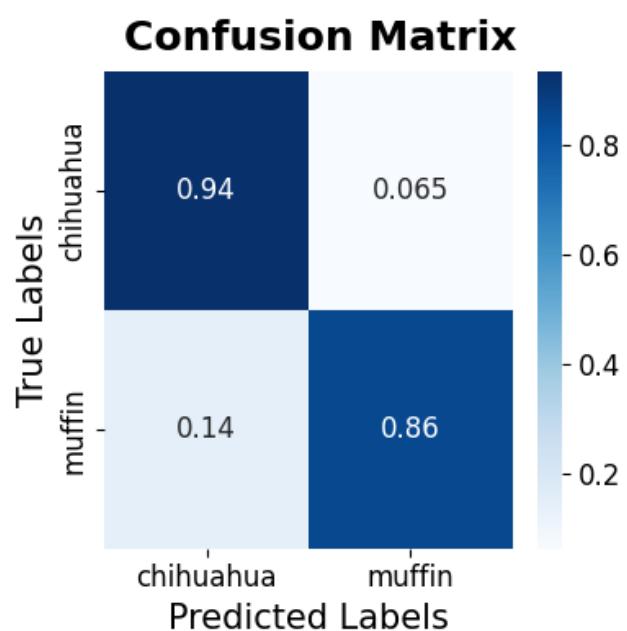
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

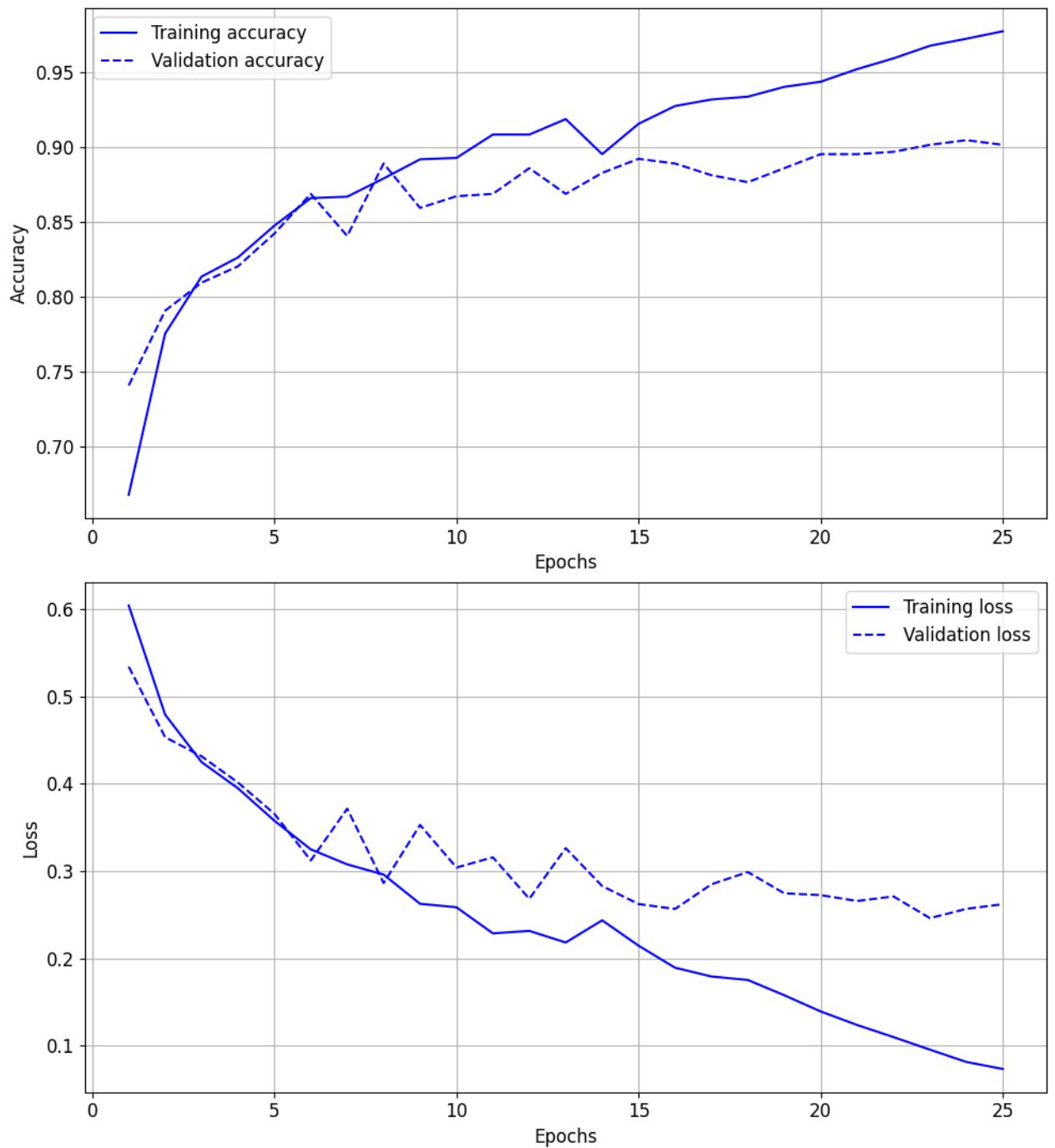
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8814	0.9350	0.9074	477
muffin	0.9199	0.8558	0.8867	416
micro avg	0.8981	0.8981	0.8981	893
macro avg	0.9007	0.8954	0.8971	893
weighted avg	0.8993	0.8981	0.8978	893
samples avg	0.8981	0.8981	0.8981	893

trial_47

- *Start Time:* 2024-10-20 11:59:53
- *Duration:* 33.485
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.1589911801054894
learning_rate	0.00010751180233446253

Evaluation Metrics:

	train	val	test
accuracy	0.9812	0.9016	0.8981
precision	0.9812	0.9016	0.8981
recall	0.9812	0.9016	0.8981
f1	0.9812	0.9016	0.8981

Figures:

Model Summary

Model: "sequential"

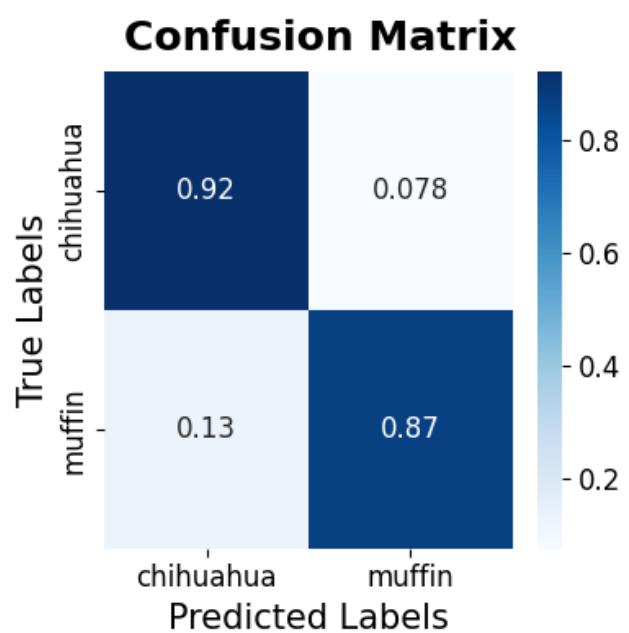
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,964,552 (30.38 MB)

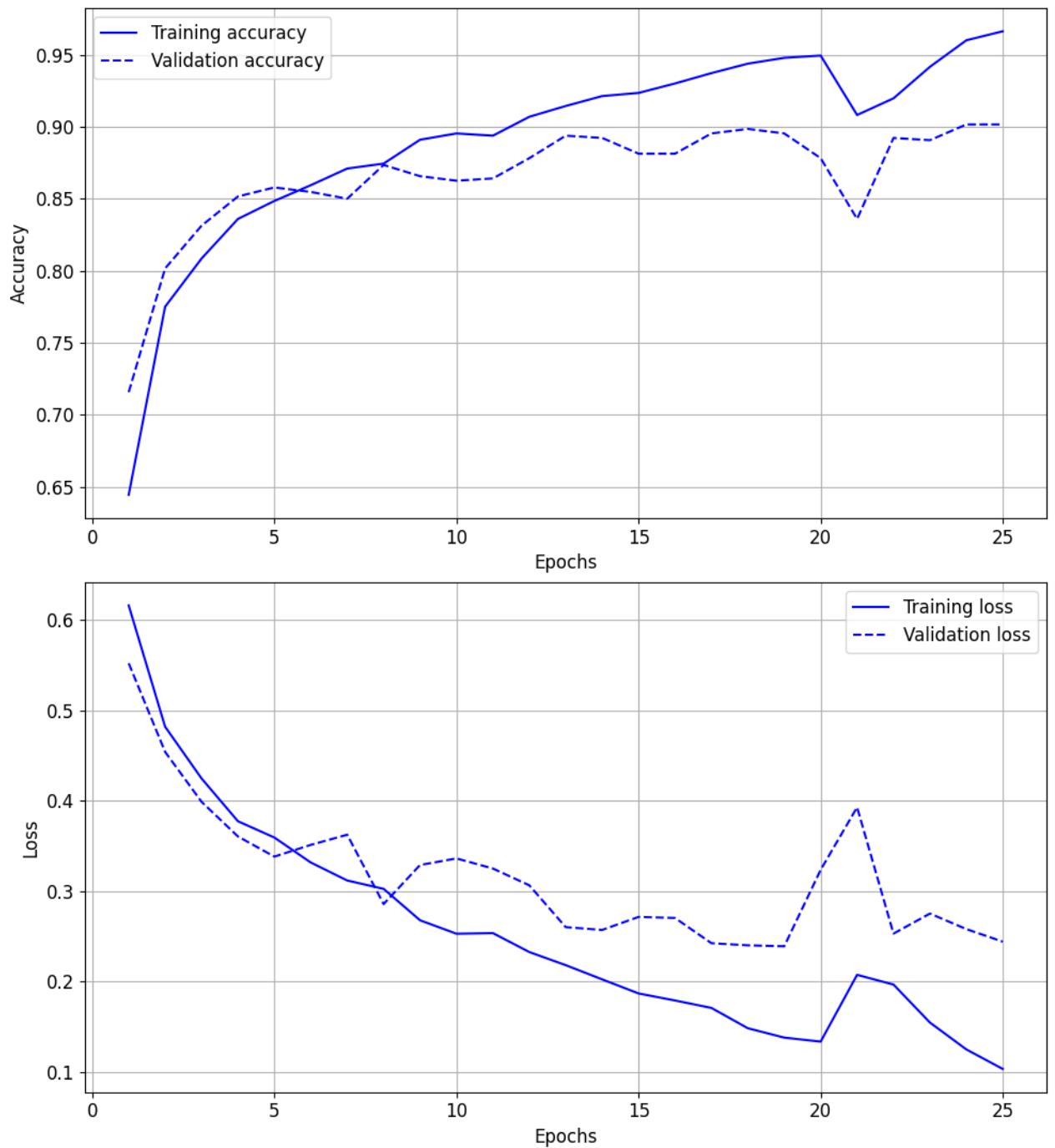
Trainable params: 2,654,850 (10.13 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,309,702 (20.25 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8907	0.9224	0.9063	477
muffin	0.9073	0.8702	0.8883	416
micro avg	0.8981	0.8981	0.8981	893
macro avg	0.8990	0.8963	0.8973	893
weighted avg	0.8984	0.8981	0.8979	893
samples avg	0.8981	0.8981	0.8981	893

trial_93

- *Start Time:* 2024-10-20 12:24:43
- *Duration:* 32.832
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.21921463379513648
learning_rate	5.5498424624983134e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9253	0.8984	0.8981
precision	0.9253	0.8984	0.8981
recall	0.9253	0.8984	0.8981
f1	0.9253	0.8984	0.8981

Figures:

Model Summary

Model: "sequential"

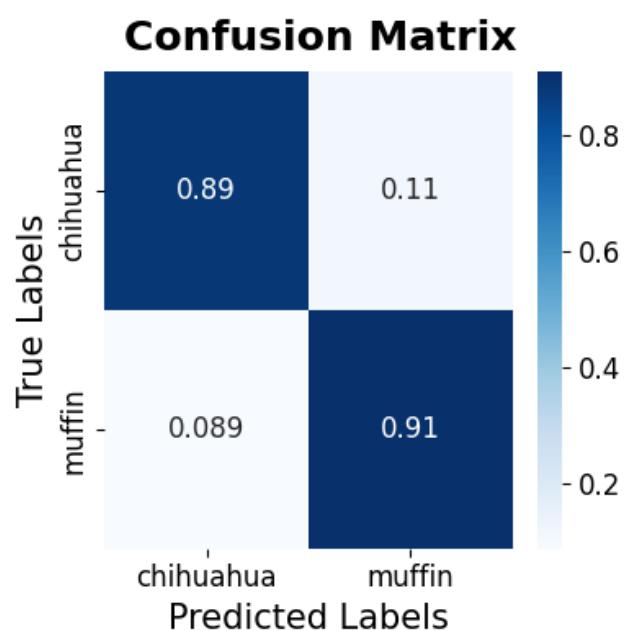
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

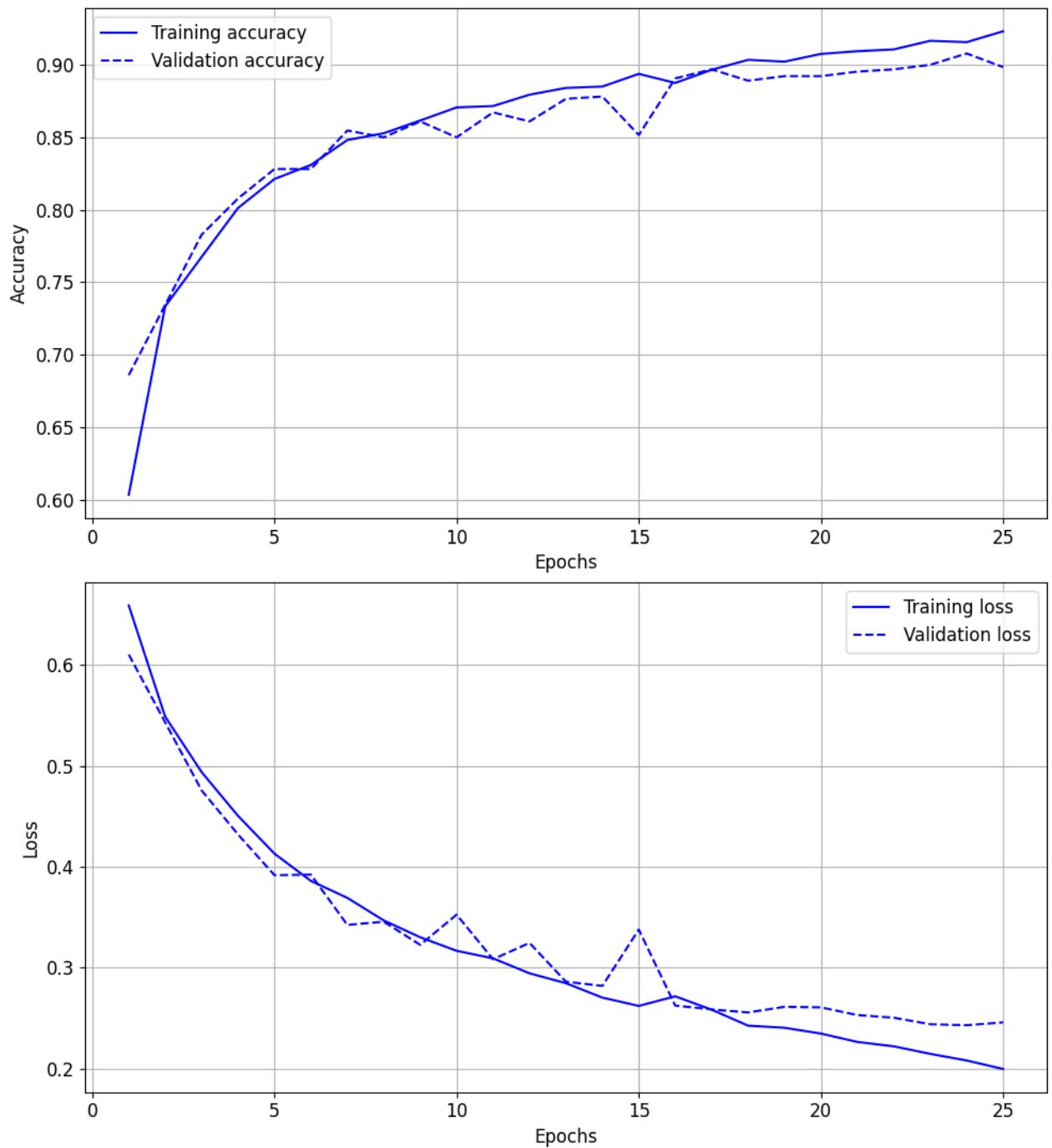
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9196	0.8868	0.9029	477
muffin	0.8753	0.9111	0.8928	416
micro avg	0.8981	0.8981	0.8981	893
macro avg	0.8974	0.8989	0.8978	893
weighted avg	0.8989	0.8981	0.8982	893
samples avg	0.8981	0.8981	0.8981	893

trial_9

- *Start Time:* 2024-10-20 11:42:25
- *Duration:* 27.983
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	7
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.4399415525895406
learning_rate	4.147251852678914e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9131	0.8938	0.8970
precision	0.9131	0.8938	0.8970
recall	0.9131	0.8938	0.8970
f1	0.9131	0.8937	0.8970

Figures:

Model Summary

Model: "sequential"

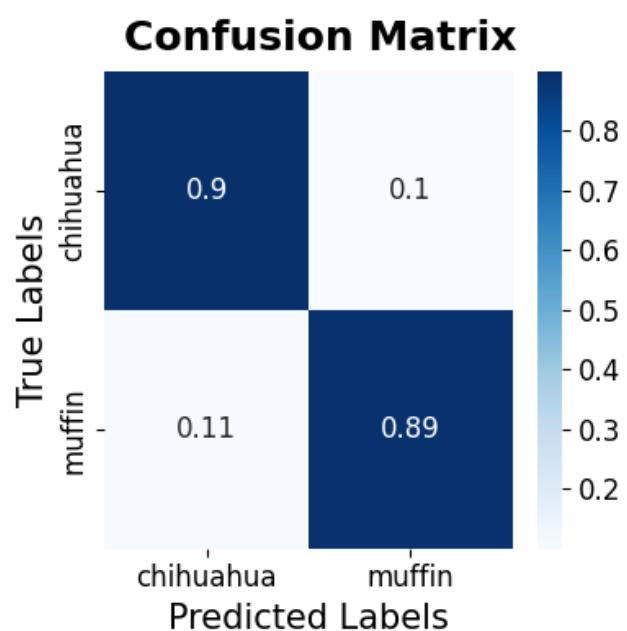
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 122, 122, 64)	9,472
max_pooling2d (MaxPooling2D)	(None, 61, 61, 64)	0
conv2d_1 (Conv2D)	(None, 55, 55, 64)	200,768
max_pooling2d_1 (MaxPooling2D)	(None, 27, 27, 64)	0
conv2d_2 (Conv2D)	(None, 21, 21, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 10, 10, 64)	0
flatten (Flatten)	(None, 6400)	0
dense (Dense)	(None, 256)	1,638,656
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 6,347,912 (24.22 MB)

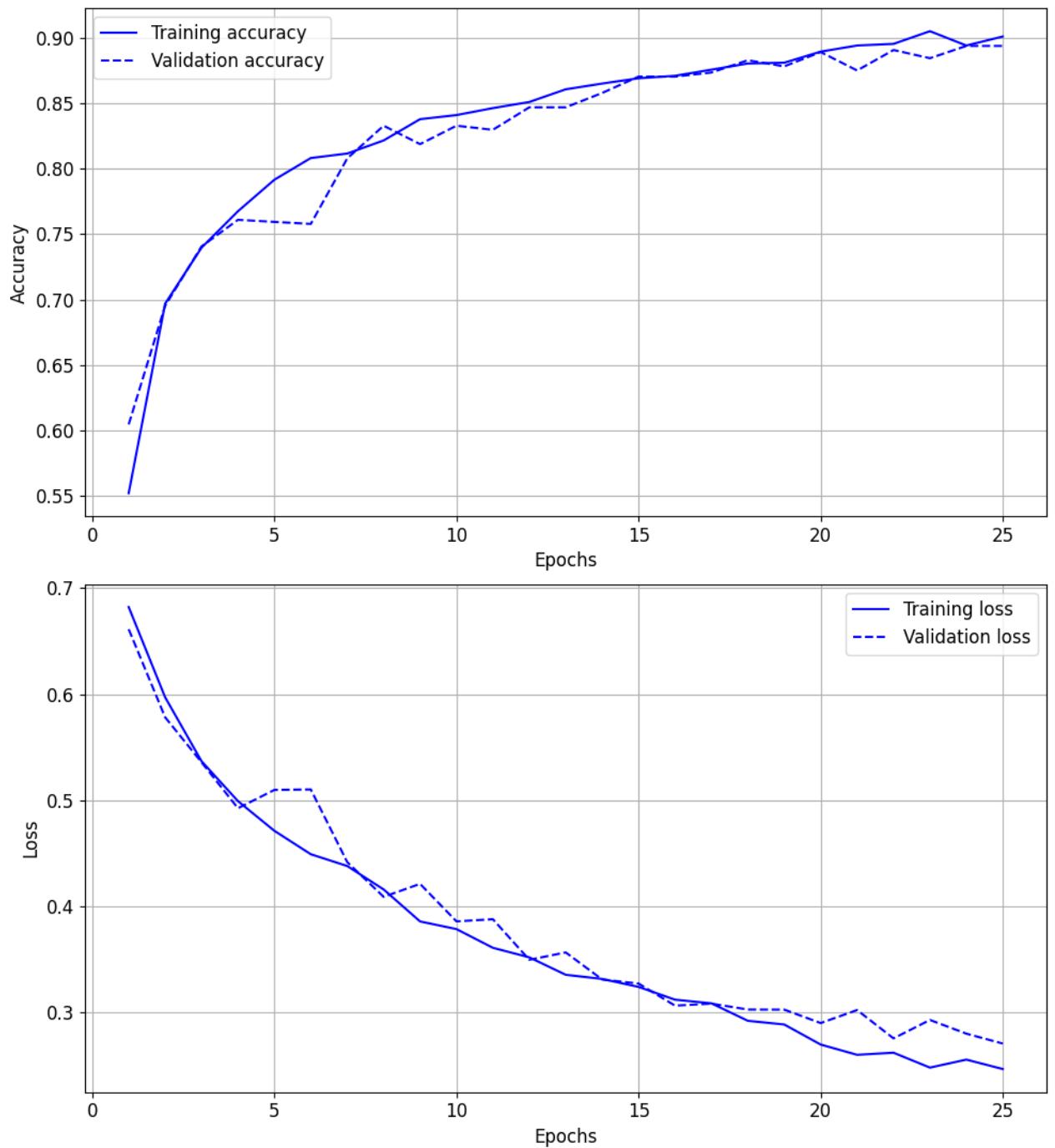
Trainable params: 2,115,970 (8.07 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 4,231,942 (16.14 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9070	0.8994	0.9032	477
muffin	0.8857	0.8942	0.8900	416
micro avg	0.8970	0.8970	0.8970	893
macro avg	0.8963	0.8968	0.8966	893
weighted avg	0.8971	0.8970	0.8970	893
samples avg	0.8970	0.8970	0.8970	893

trial_52

- *Start Time:* 2024-10-20 12:02:51
- *Duration:* 33.213
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.22634106272893156
learning_rate	5.1771039177890786e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9341	0.9016	0.8970
precision	0.9341	0.9016	0.8970
recall	0.9341	0.9016	0.8970
f1	0.9341	0.9016	0.8970

Figures:

Model Summary

Model: "sequential"

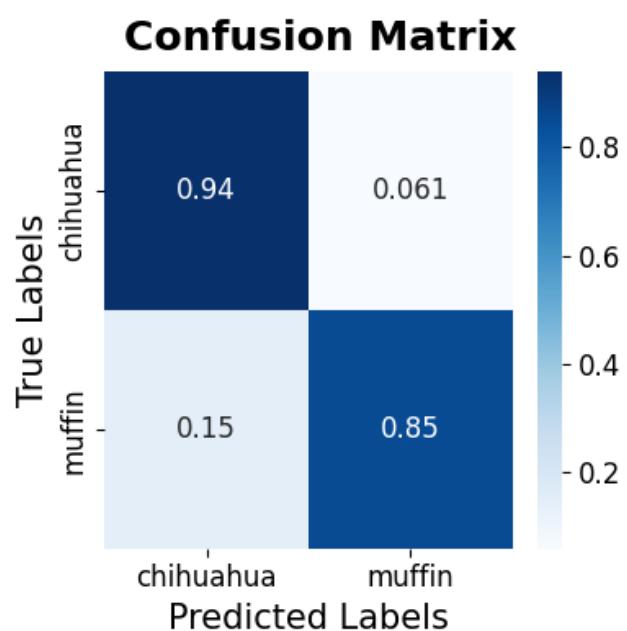
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,964,552 (30.38 MB)

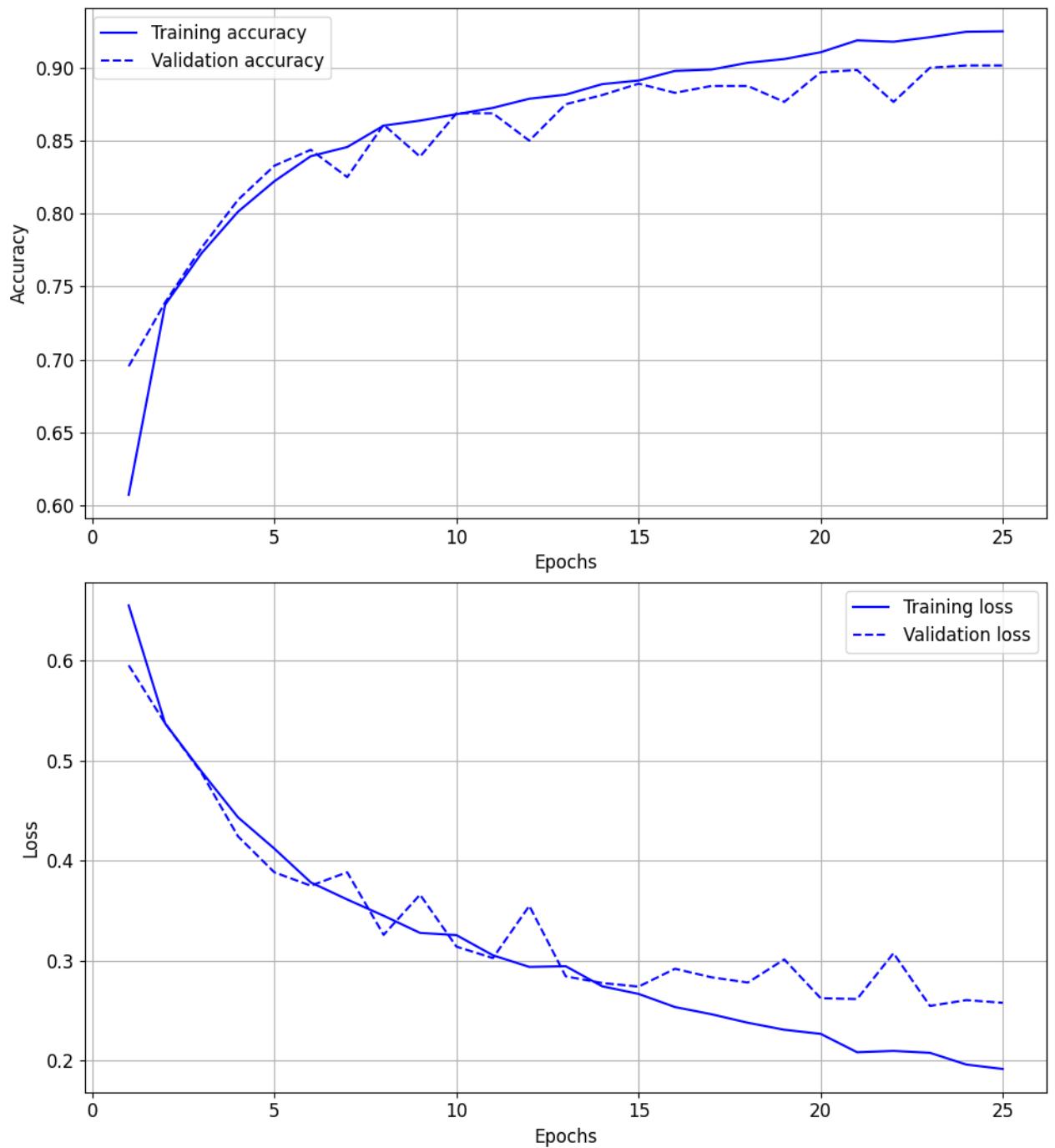
Trainable params: 2,654,850 (10.13 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,309,702 (20.25 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8767	0.9392	0.9069	477
muffin	0.9241	0.8486	0.8847	416
micro avg	0.8970	0.8970	0.8970	893
macro avg	0.9004	0.8939	0.8958	893
weighted avg	0.8988	0.8970	0.8966	893
samples avg	0.8970	0.8970	0.8970	893

trial_53

- *Start Time:* 2024-10-20 12:03:25
- *Duration:* 33.291
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.20038936690491183
learning_rate	5.842972839109143e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9350	0.8969	0.8970
precision	0.9350	0.8969	0.8970
recall	0.9350	0.8969	0.8970
f1	0.9350	0.8969	0.8970

Figures:

Model Summary

Model: "sequential"

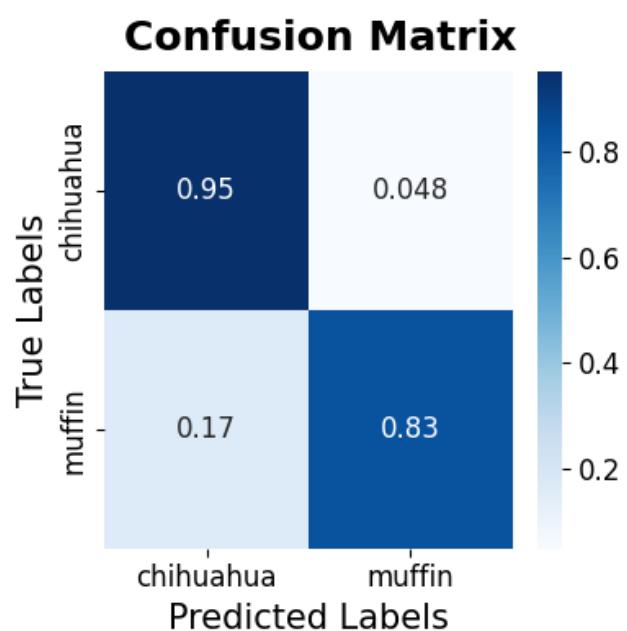
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,964,552 (30.38 MB)

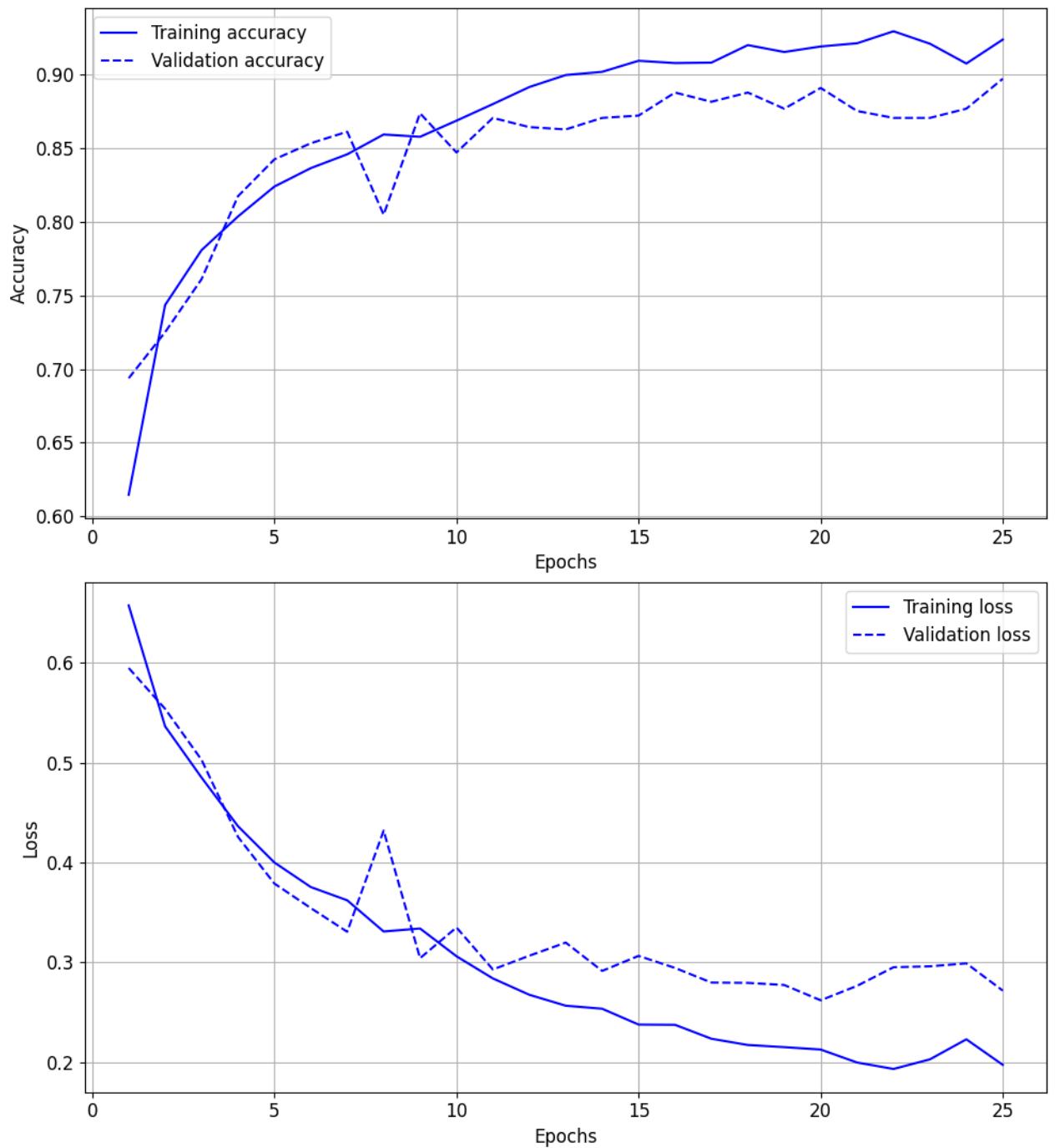
Trainable params: 2,654,850 (10.13 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,309,702 (20.25 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8681	0.9518	0.9080	477
muffin	0.9378	0.8341	0.8830	416
micro avg	0.8970	0.8970	0.8970	893
macro avg	0.9030	0.8930	0.8955	893
weighted avg	0.9006	0.8970	0.8963	893
samples avg	0.8970	0.8970	0.8970	893

trial_92

- *Start Time:* 2024-10-20 12:24:19
- *Duration:* 22.137
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.21804361218625906
learning_rate	5.4859895855698256e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9259	0.9031	0.8970
precision	0.9259	0.9031	0.8970
recall	0.9259	0.9031	0.8970
f1	0.9259	0.9031	0.8970

Figures:

Model Summary

Model: "sequential"

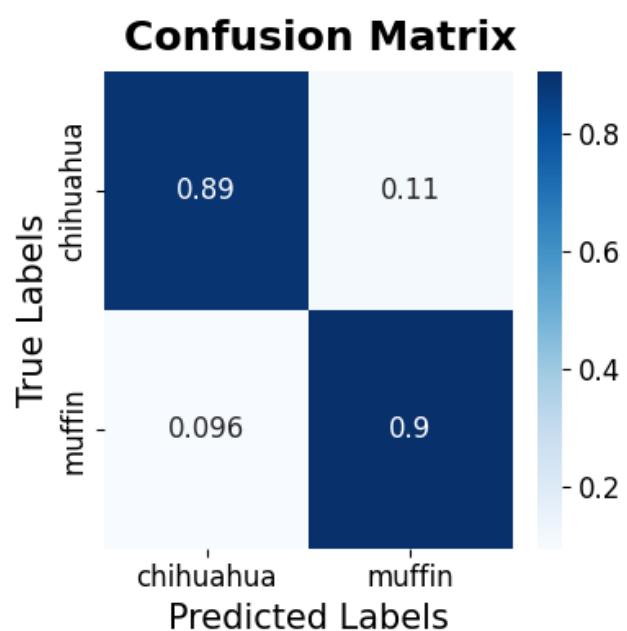
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 64)	1,792
max_pooling2d (MaxPooling2D)	(None, 63, 63, 64)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	200,768
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,234,376 (16.15 MB)

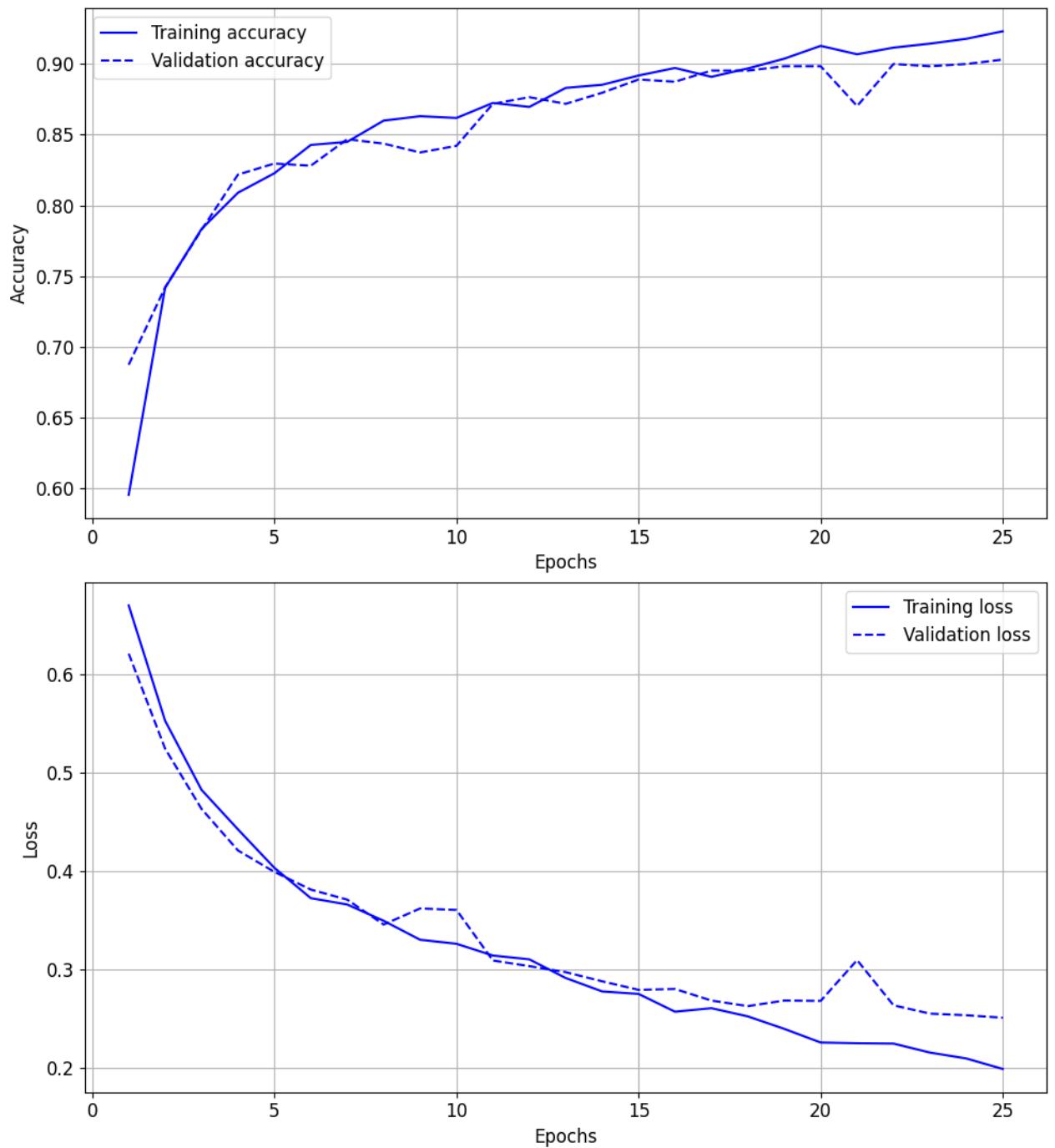
Trainable params: 1,411,458 (5.38 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 2,822,918 (10.77 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9140	0.8910	0.9023	477
muffin	0.8785	0.9038	0.8910	416
micro avg	0.8970	0.8970	0.8970	893
macro avg	0.8962	0.8974	0.8967	893
weighted avg	0.8975	0.8970	0.8971	893
samples avg	0.8970	0.8970	0.8970	893

trial_25

- *Start Time:* 2024-10-20 11:48:45
- *Duration:* 25.169
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	3
dense_units	256
dropout_rate	0.10405438879835788
learning_rate	5.1591994452276956e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9531	0.9031	0.8959
precision	0.9531	0.9031	0.8959
recall	0.9531	0.9031	0.8959
f1	0.9531	0.9031	0.8959

Figures:

Model Summary

Model: "sequential"

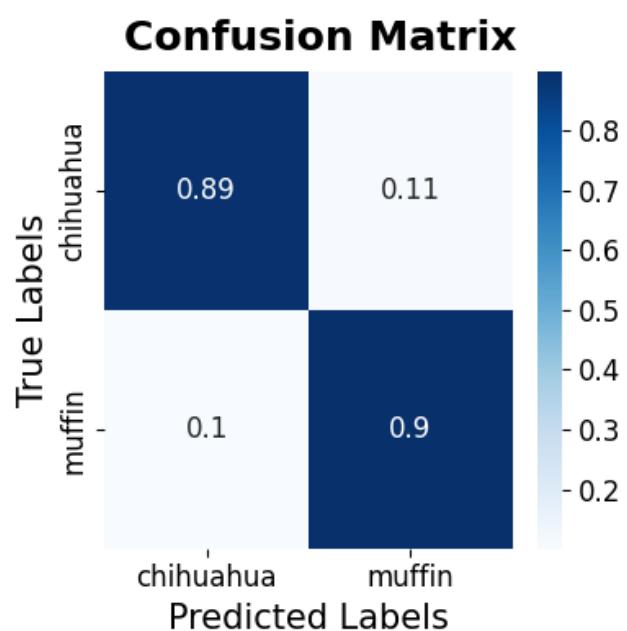
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 61, 61, 64)	73,792
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 64)	0
conv2d_2 (Conv2D)	(None, 28, 28, 64)	36,928
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 64)	0
flatten (Flatten)	(None, 12544)	0
dense (Dense)	(None, 256)	3,211,520
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 10,176,392 (38.82 MB)

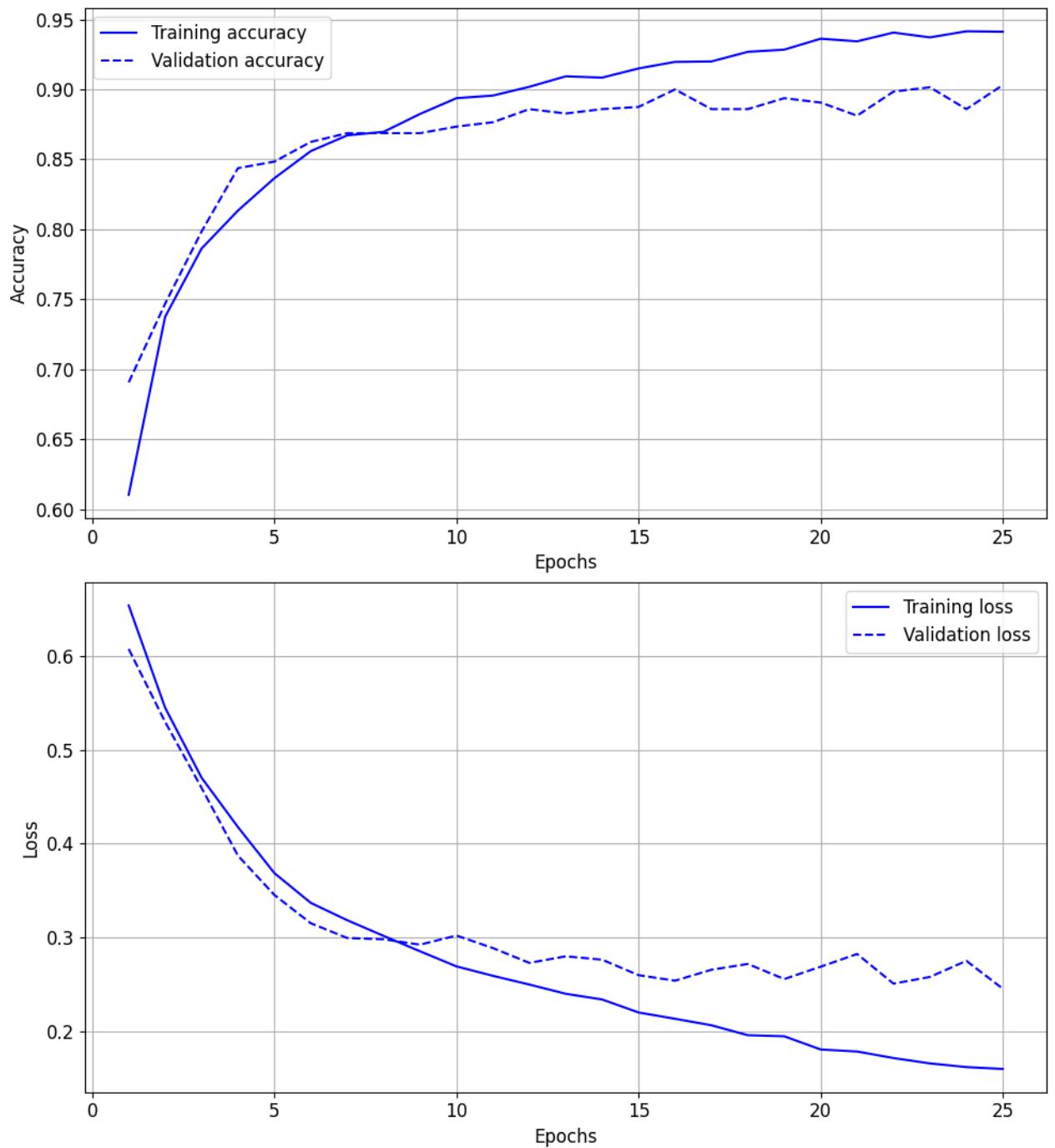
Trainable params: 3,392,130 (12.94 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 6,784,262 (25.88 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9103	0.8931	0.9016	477
muffin	0.8800	0.8990	0.8894	416
micro avg	0.8959	0.8959	0.8959	893
macro avg	0.8951	0.8961	0.8955	893
weighted avg	0.8962	0.8959	0.8959	893
samples avg	0.8959	0.8959	0.8959	893

trial_32

- *Start Time:* 2024-10-20 11:51:53
- *Duration:* 25.289
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	3
dense_units	128
dropout_rate	0.08804036278119495
learning_rate	0.0001432259142361093

Evaluation Metrics:

	train	val	test
accuracy	0.9766	0.8875	0.8959
precision	0.9766	0.8875	0.8959
recall	0.9766	0.8875	0.8959
f1	0.9766	0.8875	0.8959

Figures:

Model Summary

Model: "sequential"

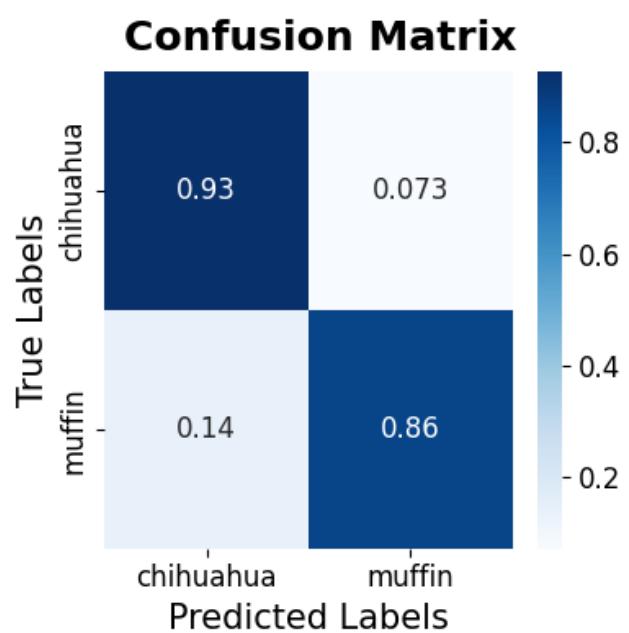
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 61, 61, 64)	73,792
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 64)	0
conv2d_2 (Conv2D)	(None, 28, 28, 64)	36,928
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 64)	0
flatten (Flatten)	(None, 12544)	0
dense (Dense)	(None, 128)	1,605,760
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 5,210,504 (19.88 MB)

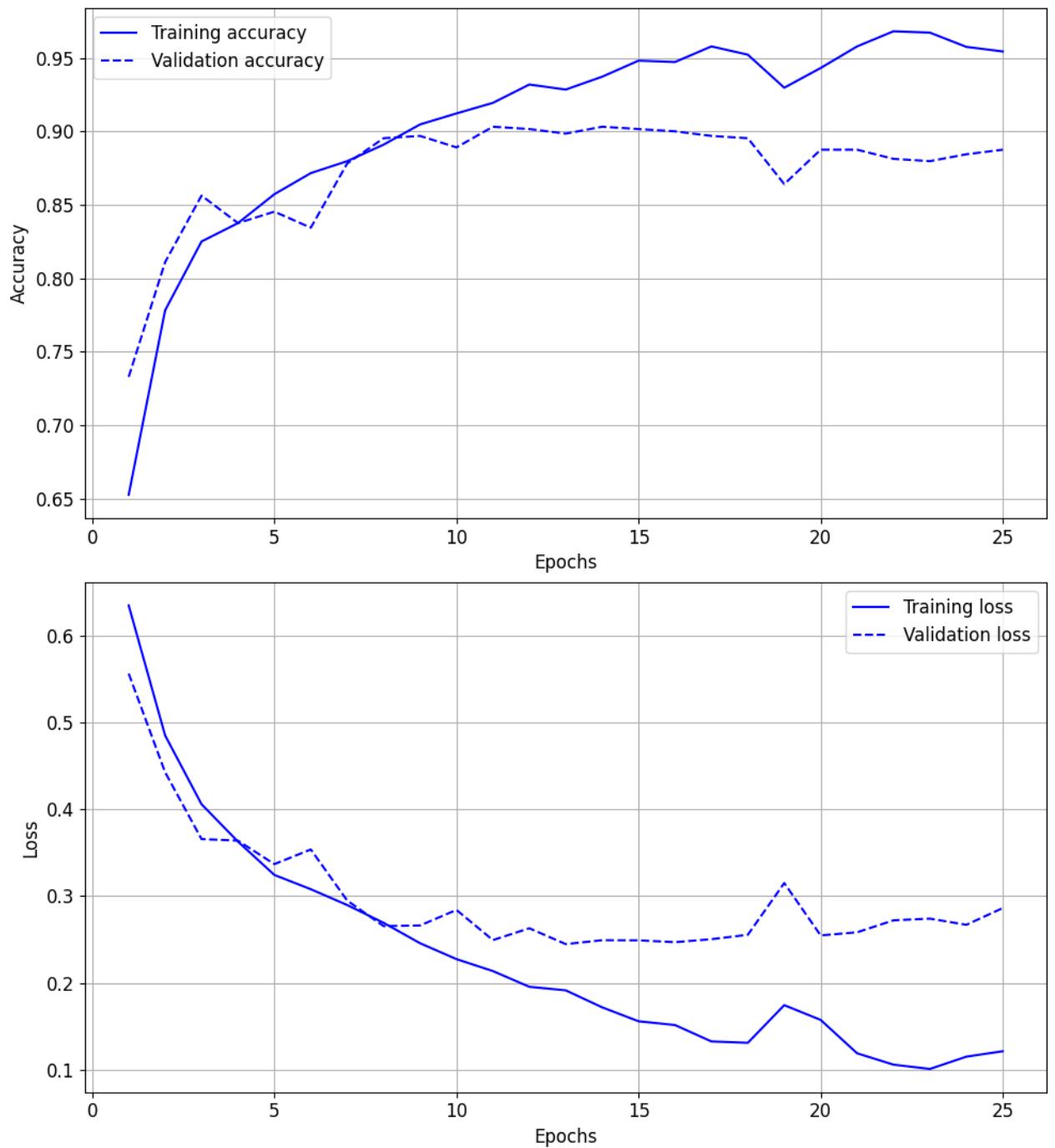
Trainable params: 1,736,834 (6.63 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,473,670 (13.25 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8840	0.9266	0.9048	477
muffin	0.9109	0.8606	0.8850	416
micro avg	0.8959	0.8959	0.8959	893
macro avg	0.8975	0.8936	0.8949	893
weighted avg	0.8966	0.8959	0.8956	893
samples avg	0.8959	0.8959	0.8959	893

trial_76

- *Start Time:* 2024-10-20 12:15:10
- *Duration:* 32.794
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.22470956769998018
learning_rate	7.876695185789754e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9366	0.9031	0.8959
precision	0.9366	0.9031	0.8959
recall	0.9366	0.9031	0.8959
f1	0.9366	0.9031	0.8959

Figures:

Model Summary

Model: "sequential"

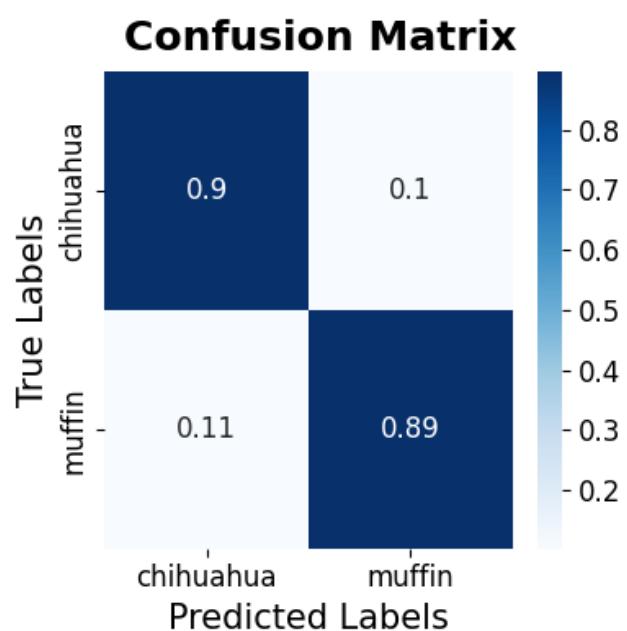
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

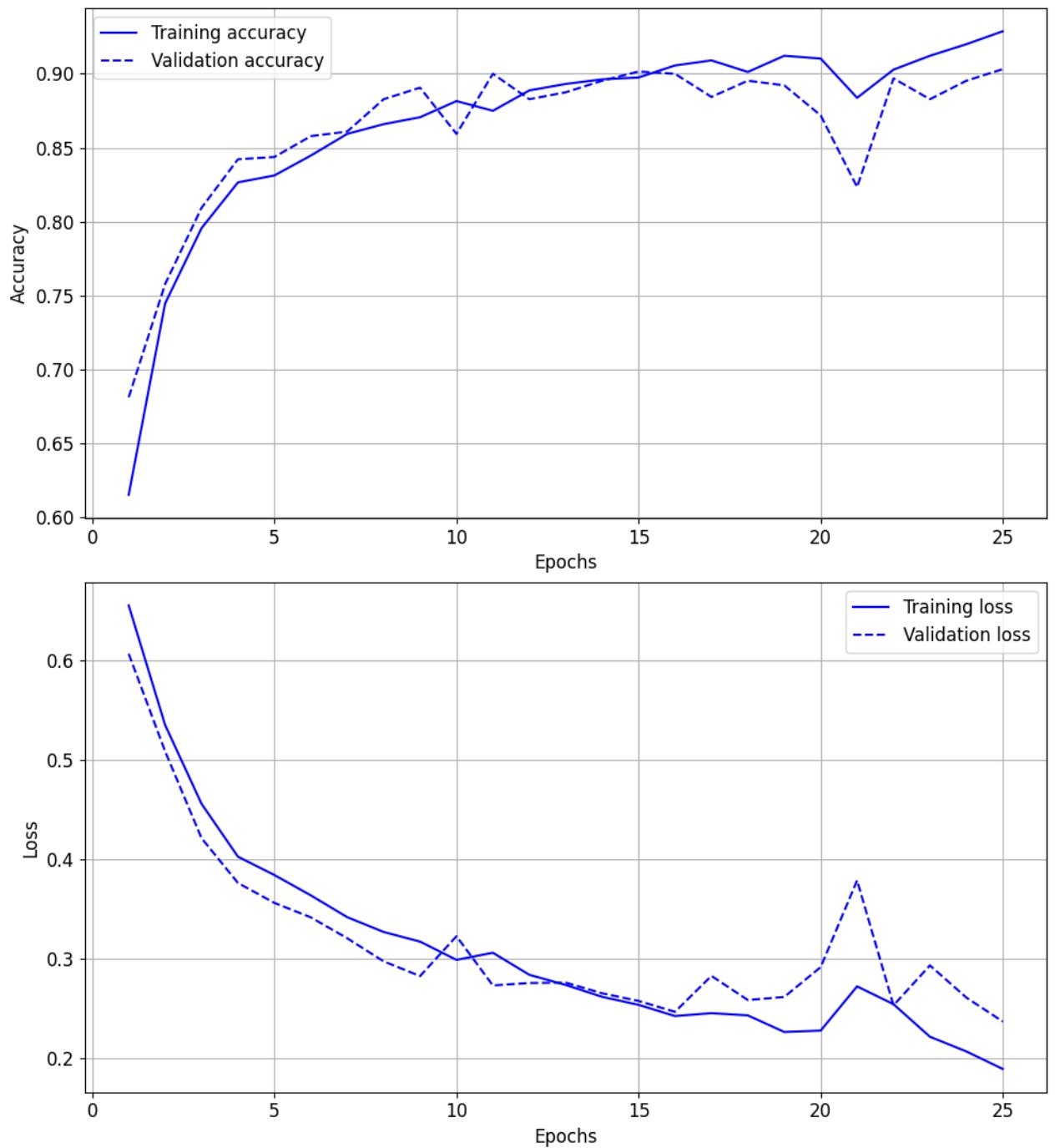
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9068	0.8973	0.9020	477
muffin	0.8836	0.8942	0.8889	416
micro avg	0.8959	0.8959	0.8959	893
macro avg	0.8952	0.8958	0.8954	893
weighted avg	0.8960	0.8959	0.8959	893
samples avg	0.8959	0.8959	0.8959	893

trial_4

- *Start Time:* 2024-10-20 11:39:45
- *Duration:* 30.502
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	7
units2	16
kernel_size2	7
dense_units	128
dropout_rate	0.4268256623318372
learning_rate	9.877515137356627e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9097	0.8875	0.8936
precision	0.9097	0.8875	0.8936
recall	0.9097	0.8875	0.8936
f1	0.9097	0.8875	0.8936

Figures:

Model Summary

Model: "sequential"

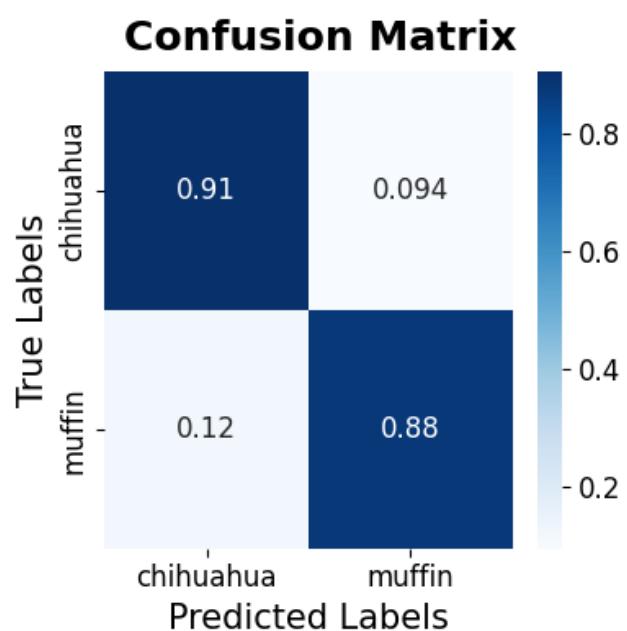
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 122, 122, 128)	18,944
max_pooling2d (MaxPooling2D)	(None, 61, 61, 128)	0
conv2d_1 (Conv2D)	(None, 55, 55, 16)	100,368
max_pooling2d_1 (MaxPooling2D)	(None, 27, 27, 16)	0
conv2d_2 (Conv2D)	(None, 21, 21, 16)	12,560
max_pooling2d_2 (MaxPooling2D)	(None, 10, 10, 16)	0
flatten (Flatten)	(None, 1600)	0
dense (Dense)	(None, 128)	204,928
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 1,060,712 (4.05 MB)

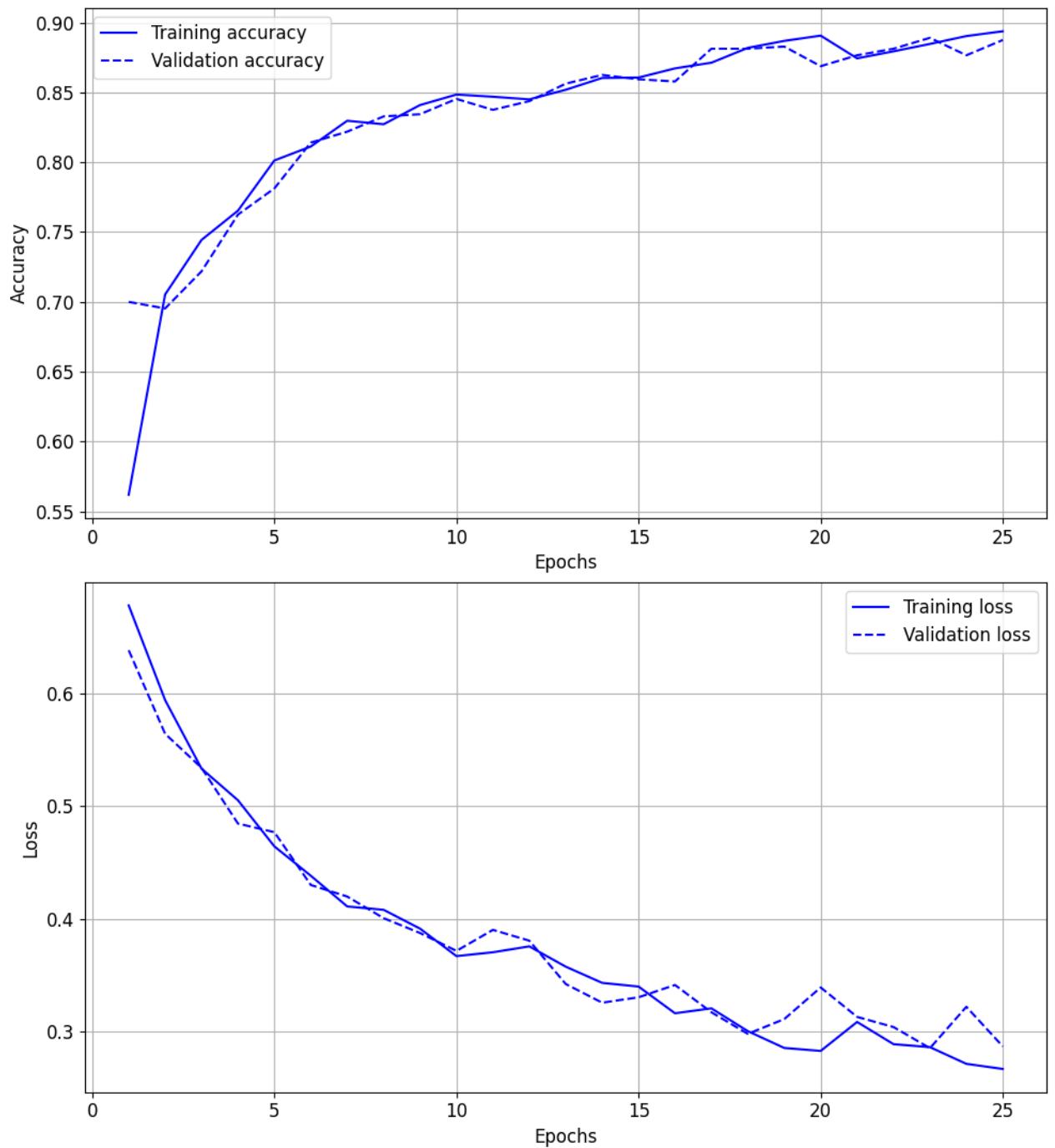
Trainable params: 353,570 (1.35 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 707,142 (2.70 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8963	0.9057	0.9009	477
muffin	0.8905	0.8798	0.8851	416
micro avg	0.8936	0.8936	0.8936	893
macro avg	0.8934	0.8927	0.8930	893
weighted avg	0.8936	0.8936	0.8936	893
samples avg	0.8936	0.8936	0.8936	893

trial_37

- *Start Time:* 2024-10-20 11:54:29
- *Duration:* 29.297
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	128
dropout_rate	0.16964906896389045
learning_rate	0.00026937522021898115

Evaluation Metrics:

	train	val	test
accuracy	0.9809	0.8813	0.8936
precision	0.9809	0.8813	0.8936
recall	0.9809	0.8813	0.8936
f1	0.9809	0.8812	0.8936

Figures:

Model Summary

Model: "sequential"

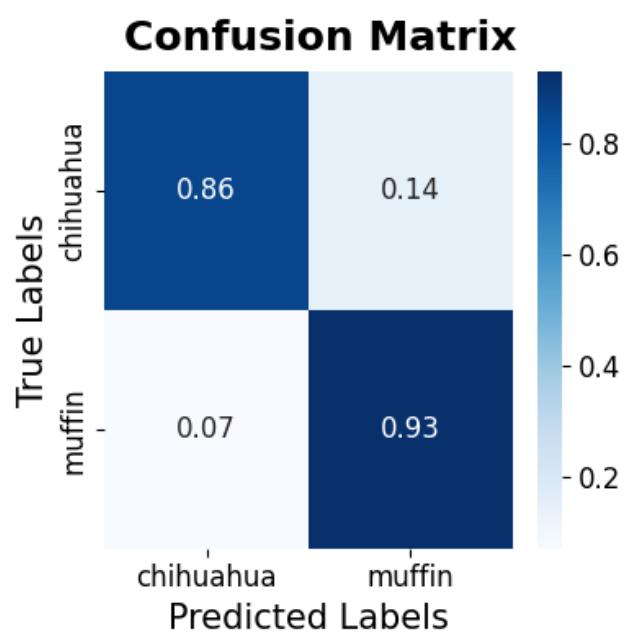
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1,179,776
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,522,376 (17.25 MB)

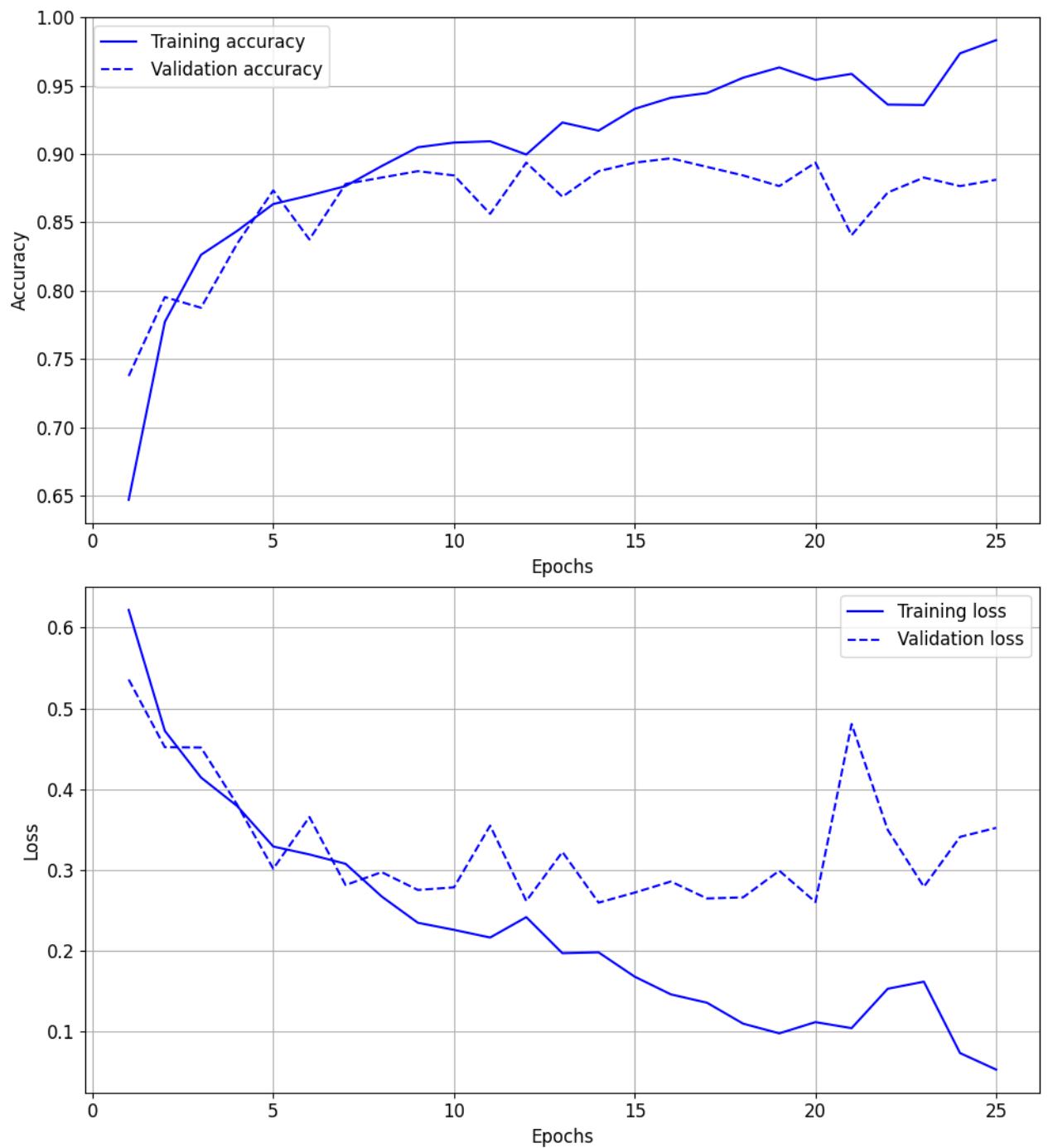
Trainable params: 1,507,458 (5.75 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,014,918 (11.50 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9341	0.8616	0.8964	477
muffin	0.8543	0.9303	0.8907	416
micro avg	0.8936	0.8936	0.8936	893
macro avg	0.8942	0.8960	0.8935	893
weighted avg	0.8969	0.8936	0.8937	893
samples avg	0.8936	0.8936	0.8936	893

trial_44

- *Start Time:* 2024-10-20 11:58:12
- *Duration:* 32.823
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.30402426555404355
learning_rate	0.00019680487813609384

Evaluation Metrics:

	train	val	test
accuracy	0.9622	0.8922	0.8936
precision	0.9622	0.8922	0.8936
recall	0.9622	0.8922	0.8936
f1	0.9622	0.8922	0.8936

Figures:

Model Summary

Model: "sequential"

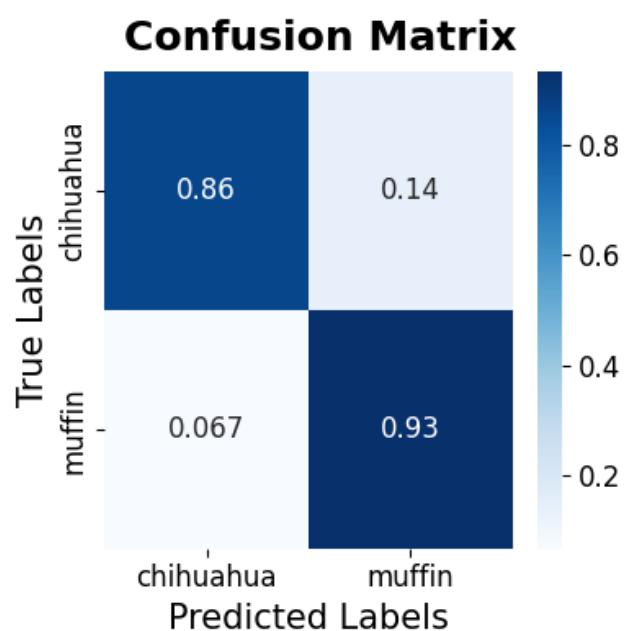
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

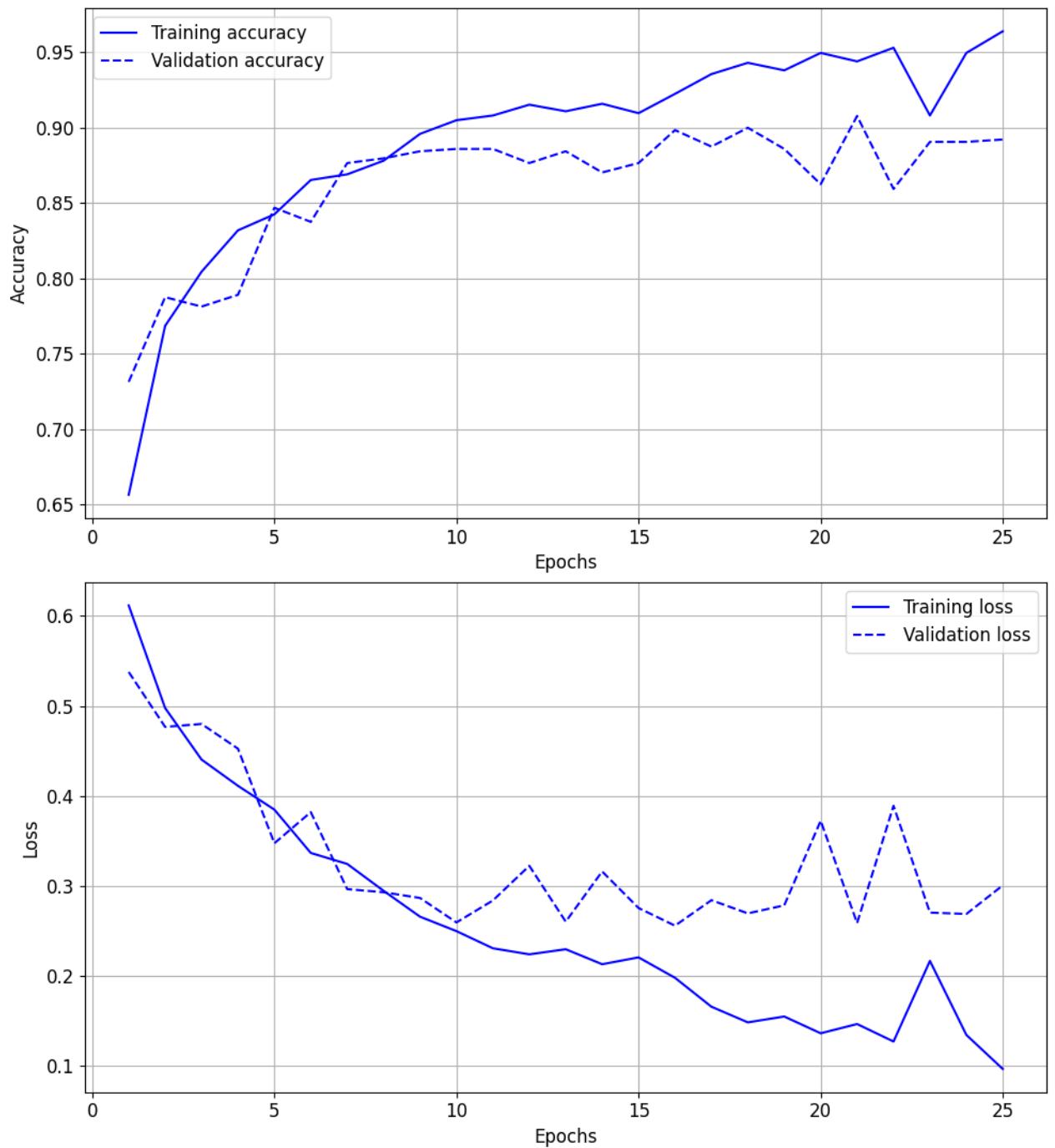
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9361	0.8595	0.8962	477
muffin	0.8527	0.9327	0.8909	416
micro avg	0.8936	0.8936	0.8936	893
macro avg	0.8944	0.8961	0.8936	893
weighted avg	0.8973	0.8936	0.8937	893
samples avg	0.8936	0.8936	0.8936	893

trial_31

- *Start Time:* 2024-10-20 11:51:23
- *Duration:* 29.423
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	128
dropout_rate	0.20512330309146576
learning_rate	0.0002757843354855997

Evaluation Metrics:

	train	val	test
accuracy	0.9878	0.8891	0.8925
precision	0.9878	0.8891	0.8925
recall	0.9878	0.8891	0.8925
f1	0.9878	0.8891	0.8925

Figures:

Model Summary

Model: "sequential"

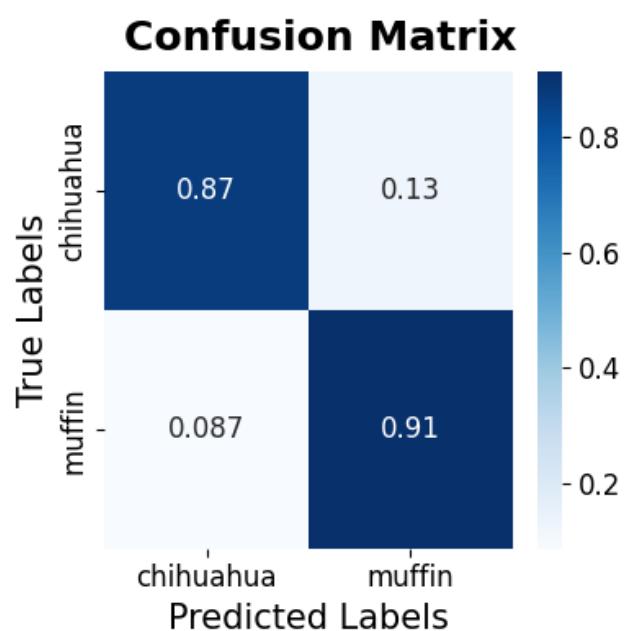
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1,179,776
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,522,376 (17.25 MB)

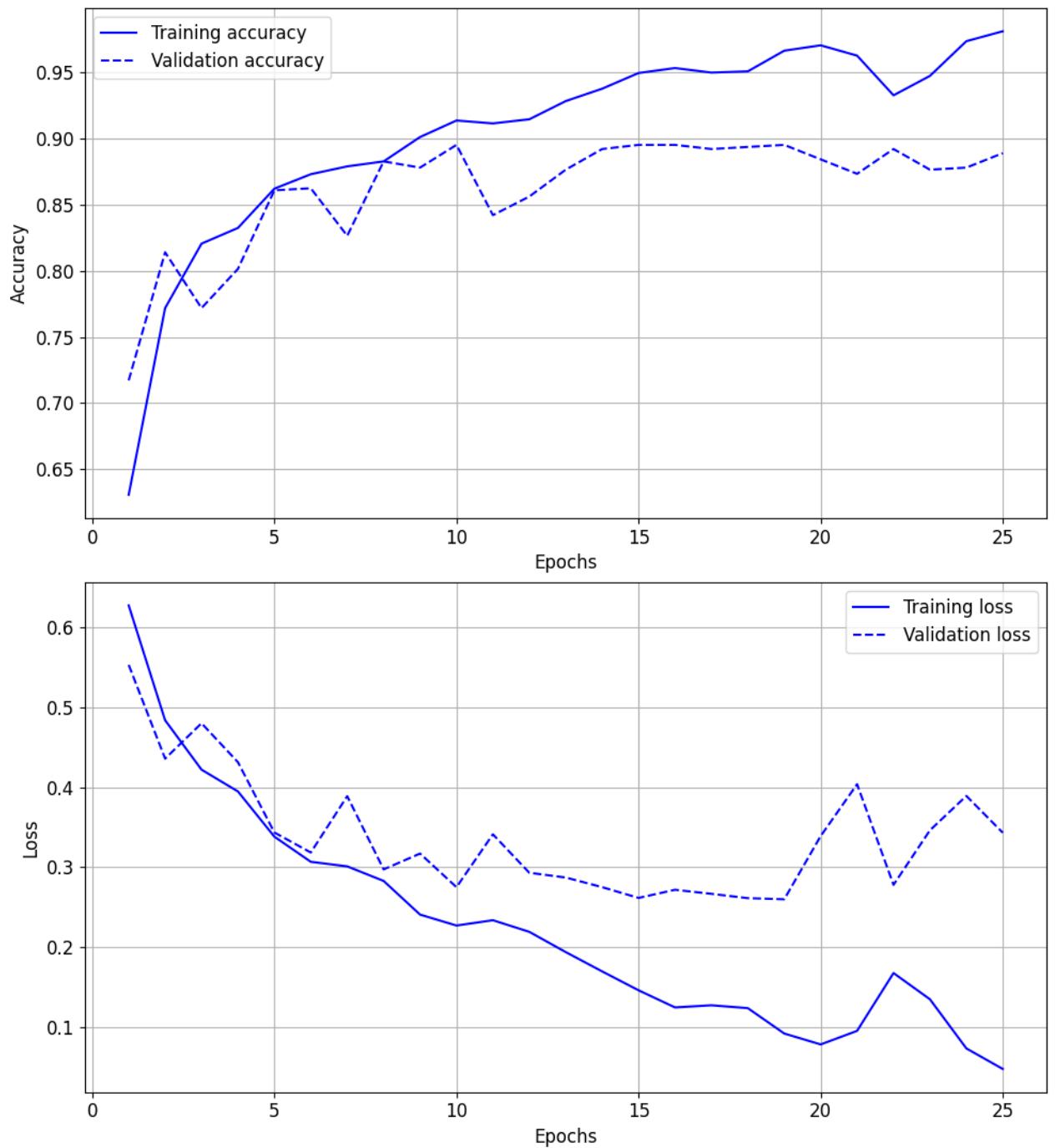
Trainable params: 1,507,458 (5.75 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,014,918 (11.50 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9205	0.8742	0.8968	477
muffin	0.8636	0.9135	0.8879	416
micro avg	0.8925	0.8925	0.8925	893
macro avg	0.8921	0.8938	0.8923	893
weighted avg	0.8940	0.8925	0.8926	893
samples avg	0.8925	0.8925	0.8925	893

[trial_41](#)

- *Start Time:* 2024-10-20 11:56:34
- *Duration:* 29.216
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	128
dropout_rate	0.2578949891812714
learning_rate	0.0007471523408333744

Evaluation Metrics:

	train	val	test
accuracy	0.9950	0.8938	0.8925
precision	0.9950	0.8938	0.8925
recall	0.9950	0.8938	0.8925
f1	0.9950	0.8937	0.8925

Figures:

Model Summary

Model: "sequential"

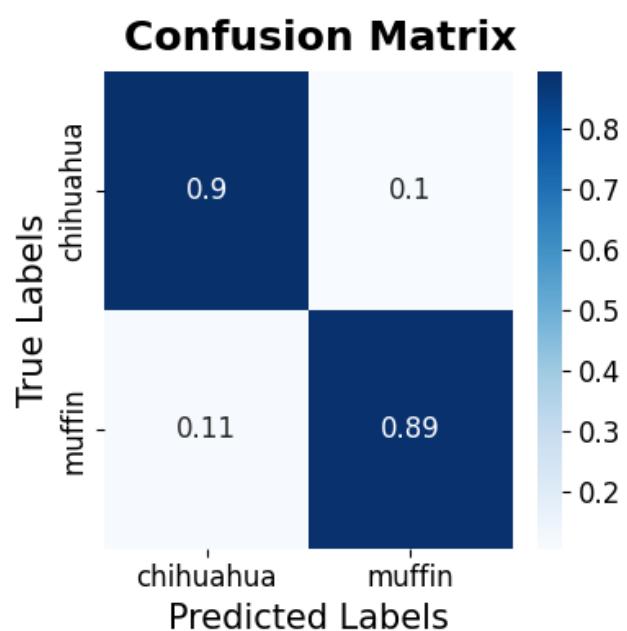
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1,179,776
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,522,376 (17.25 MB)

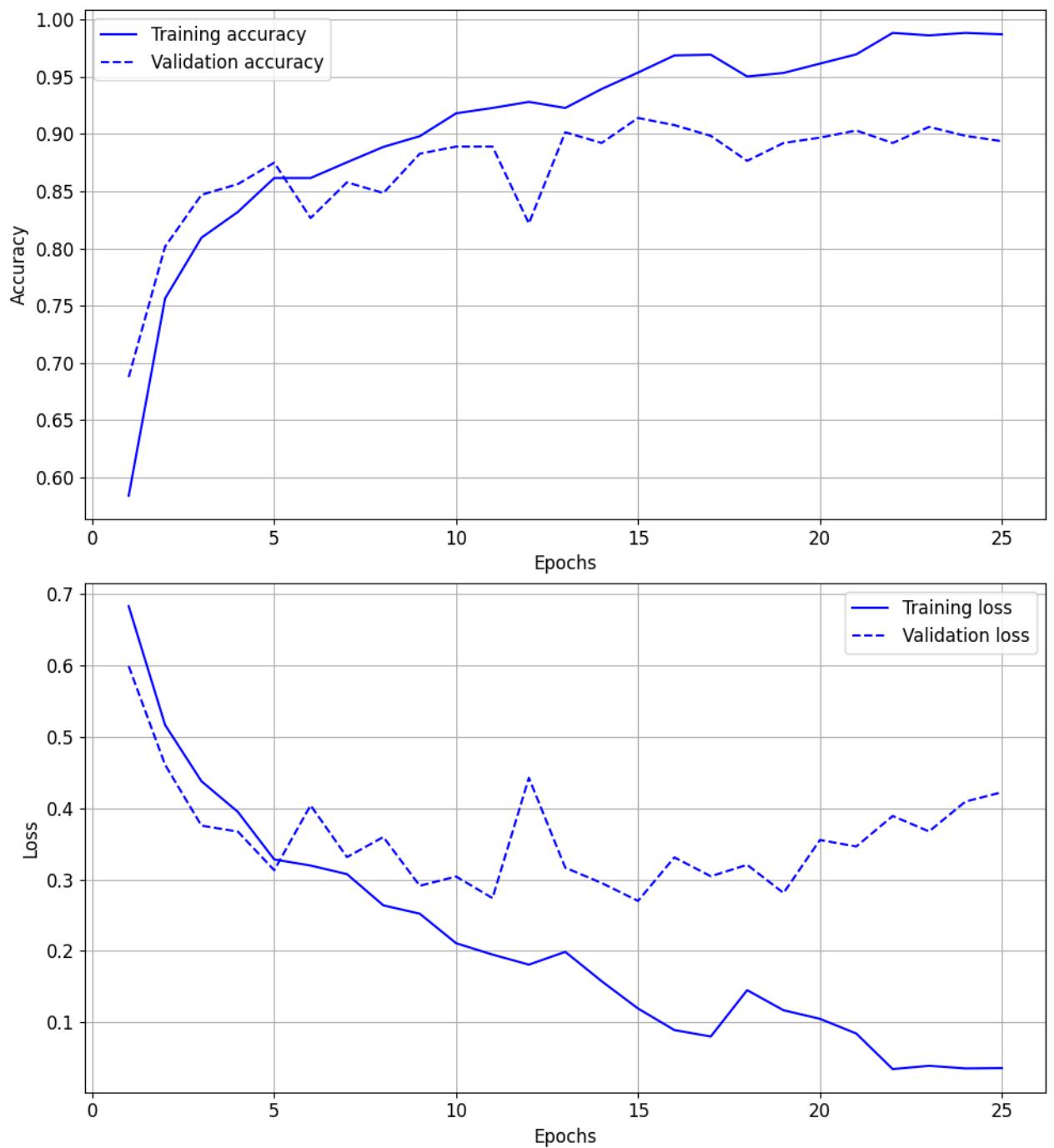
Trainable params: 1,507,458 (5.75 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,014,918 (11.50 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9027	0.8952	0.8989	477
muffin	0.8810	0.8894	0.8852	416
micro avg	0.8925	0.8925	0.8925	893
macro avg	0.8919	0.8923	0.8921	893
weighted avg	0.8926	0.8925	0.8925	893
samples avg	0.8925	0.8925	0.8925	893

trial_50

- *Start Time:* 2024-10-20 12:01:42
- *Duration:* 33.256
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.2459440028092077
learning_rate	0.00017502697871189972

Evaluation Metrics:

	train	val	test
accuracy	0.9931	0.8953	0.8925
precision	0.9931	0.8953	0.8925
recall	0.9931	0.8953	0.8925
f1	0.9931	0.8953	0.8925

Figures:

Model Summary

Model: "sequential"

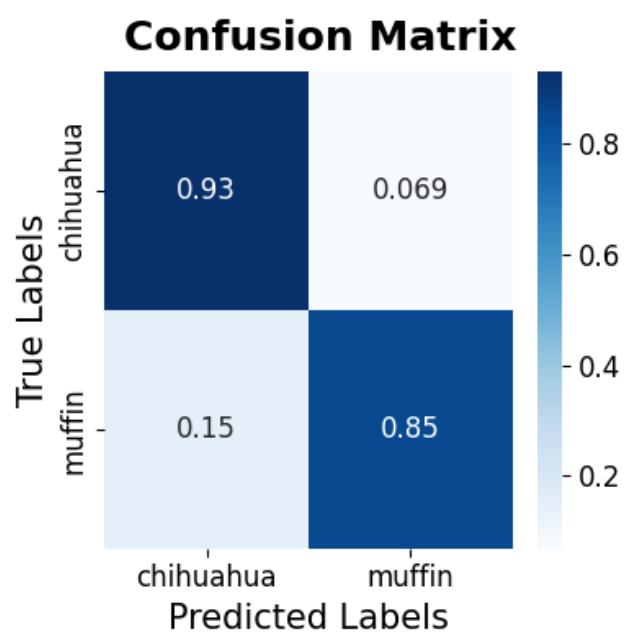
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,964,552 (30.38 MB)

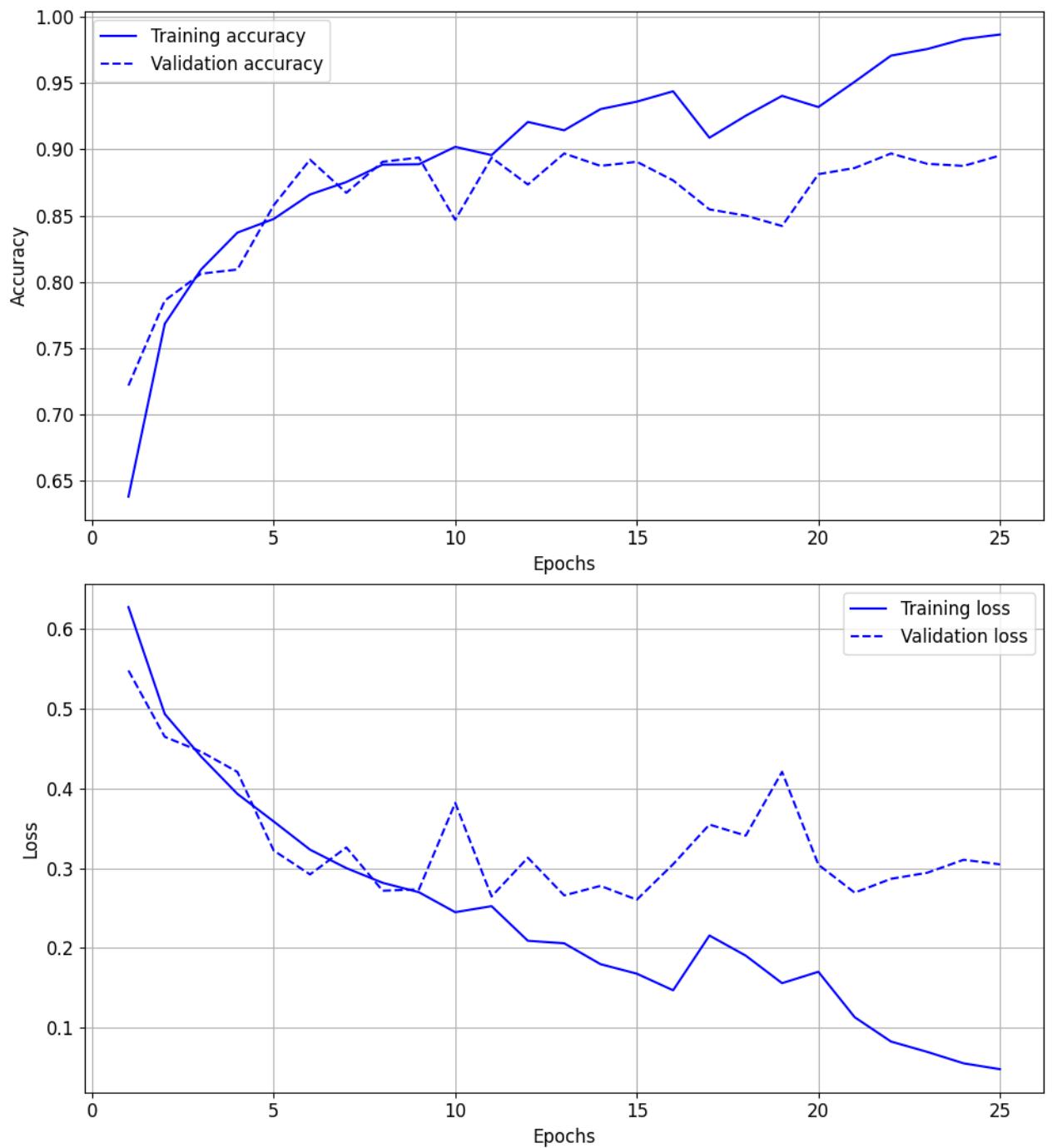
Trainable params: 2,654,850 (10.13 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,309,702 (20.25 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8757	0.9308	0.9024	477
muffin	0.9145	0.8486	0.8803	416
micro avg	0.8925	0.8925	0.8925	893
macro avg	0.8951	0.8897	0.8914	893
weighted avg	0.8938	0.8925	0.8921	893
samples avg	0.8925	0.8925	0.8925	893

trial_89

- *Start Time:* 2024-10-20 12:22:39
- *Duration:* 29.823
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	256
dropout_rate	0.17242759721540662
learning_rate	9.55994452075401e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9438	0.8750	0.8925
precision	0.9438	0.8750	0.8925
recall	0.9438	0.8750	0.8925
f1	0.9437	0.8750	0.8925

Figures:

Model Summary

Model: "sequential"

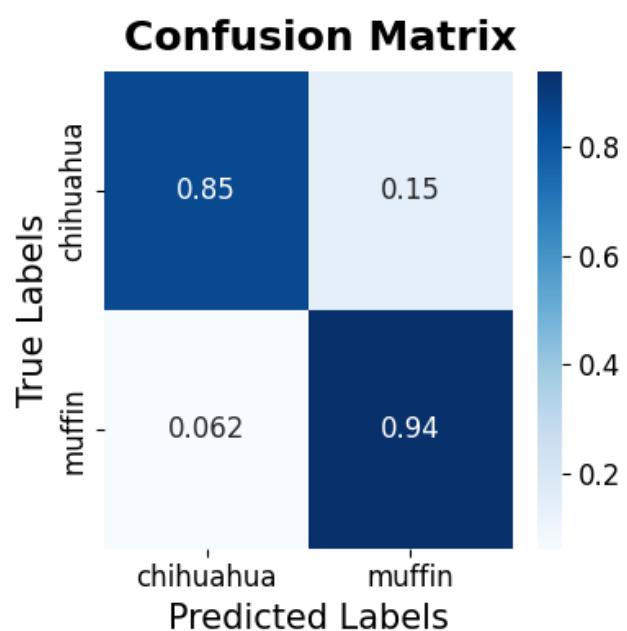
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 256)	2,359,552
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 8,210,312 (31.32 MB)

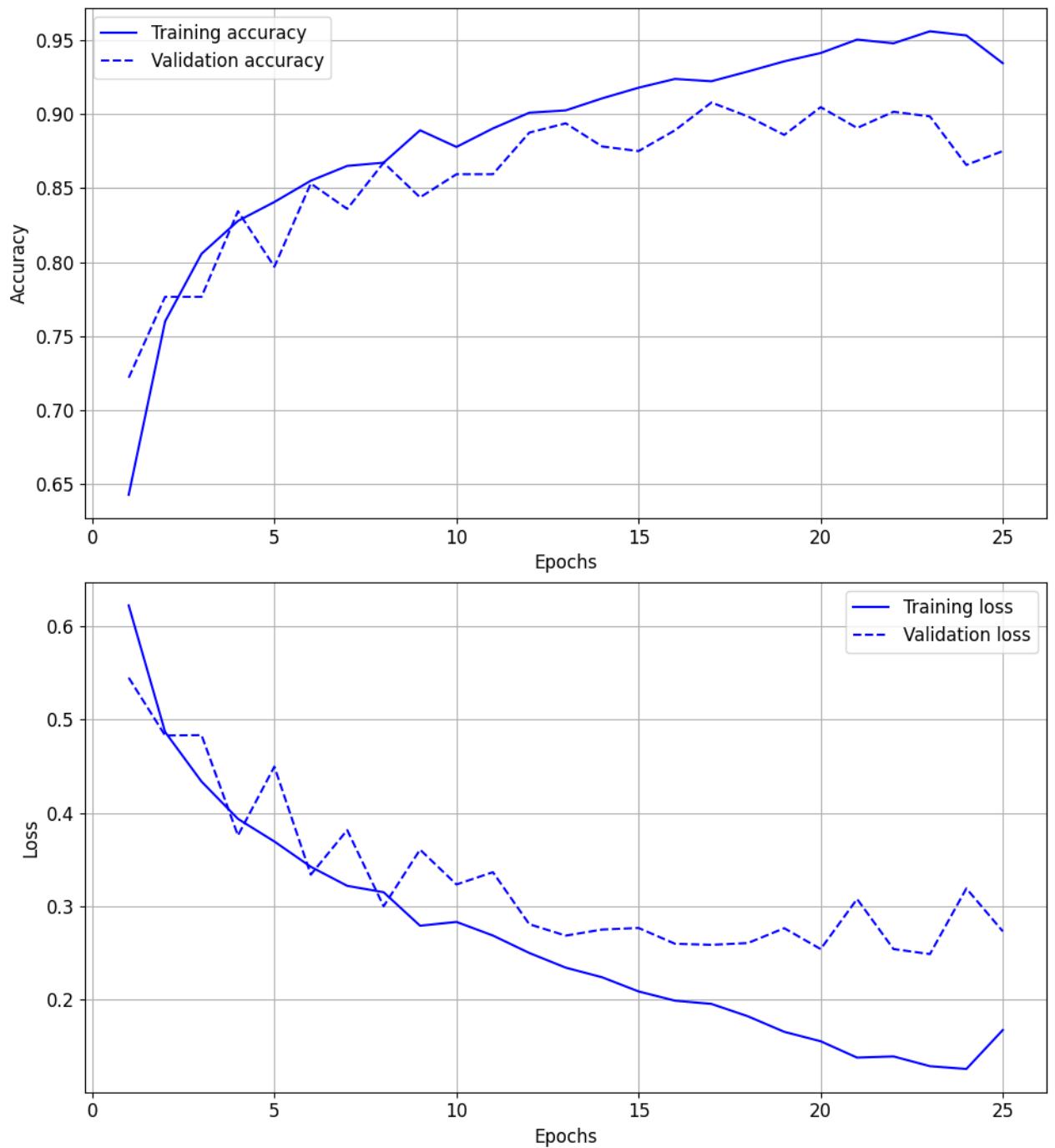
Trainable params: 2,736,770 (10.44 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,473,542 (20.88 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9400	0.8532	0.8945	477
muffin	0.8478	0.9375	0.8904	416
micro avg	0.8925	0.8925	0.8925	893
macro avg	0.8939	0.8954	0.8925	893
weighted avg	0.8970	0.8925	0.8926	893
samples avg	0.8925	0.8925	0.8925	893

trial_10

- *Start Time:* 2024-10-20 11:42:54
- *Duration:* 23.693
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	7
units2	64
kernel_size2	5
dense_units	512
dropout_rate	0.35801565254136836
learning_rate	8.754031693730487e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9766	0.8781	0.8914
precision	0.9766	0.8781	0.8914
recall	0.9766	0.8781	0.8914
f1	0.9766	0.8781	0.8914

Figures:

Model Summary

Model: "sequential"

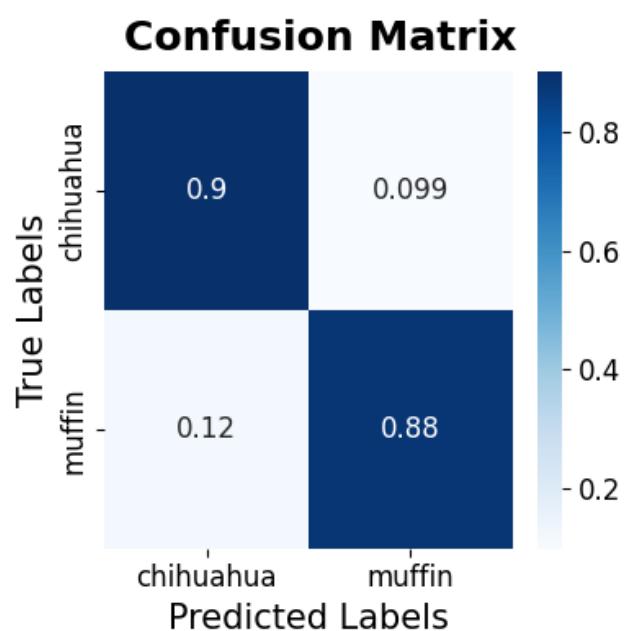
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 122, 122, 64)	9,472
max_pooling2d (MaxPooling2D)	(None, 61, 61, 64)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	102,464
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 24, 24, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 512)	4,719,104
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 15,591,560 (59.48 MB)

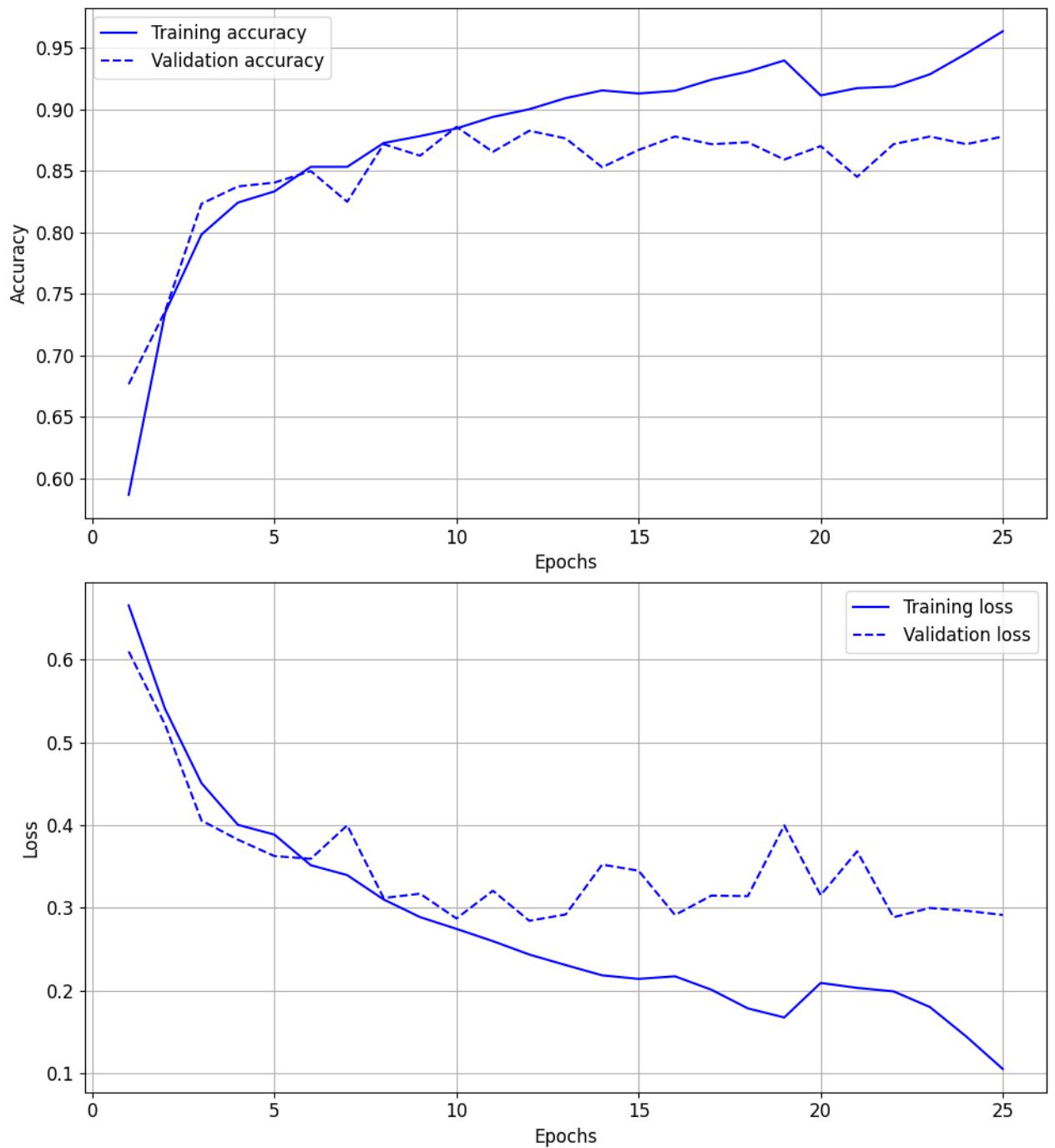
Trainable params: 5,197,186 (19.83 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 10,394,374 (39.65 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8958	0.9015	0.8986	477
muffin	0.8862	0.8798	0.8830	416
micro avg	0.8914	0.8914	0.8914	893
macro avg	0.8910	0.8906	0.8908	893
weighted avg	0.8913	0.8914	0.8914	893
samples avg	0.8914	0.8914	0.8914	893

trial_38

- *Start Time:* 2024-10-20 11:54:59
- *Duration:* 32.824
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.05171153810724736
learning_rate	6.930027895613654e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9281	0.8938	0.8914
precision	0.9281	0.8938	0.8914
recall	0.9281	0.8938	0.8914
f1	0.9281	0.8937	0.8914

Figures:

Model Summary

Model: "sequential"

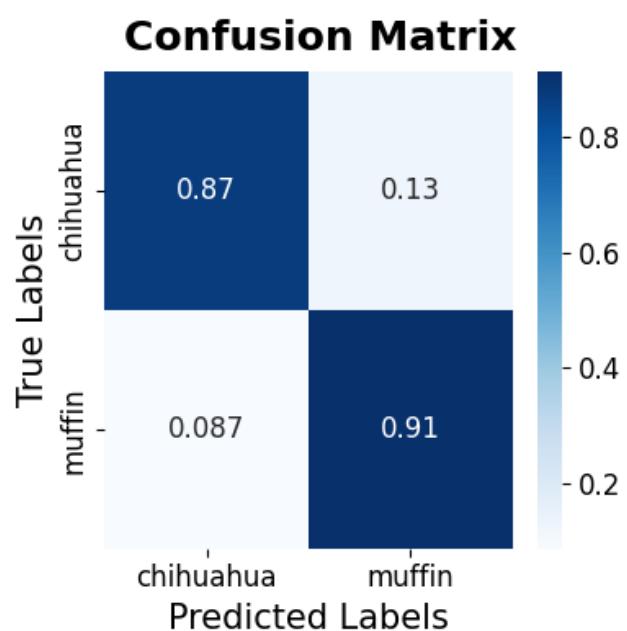
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

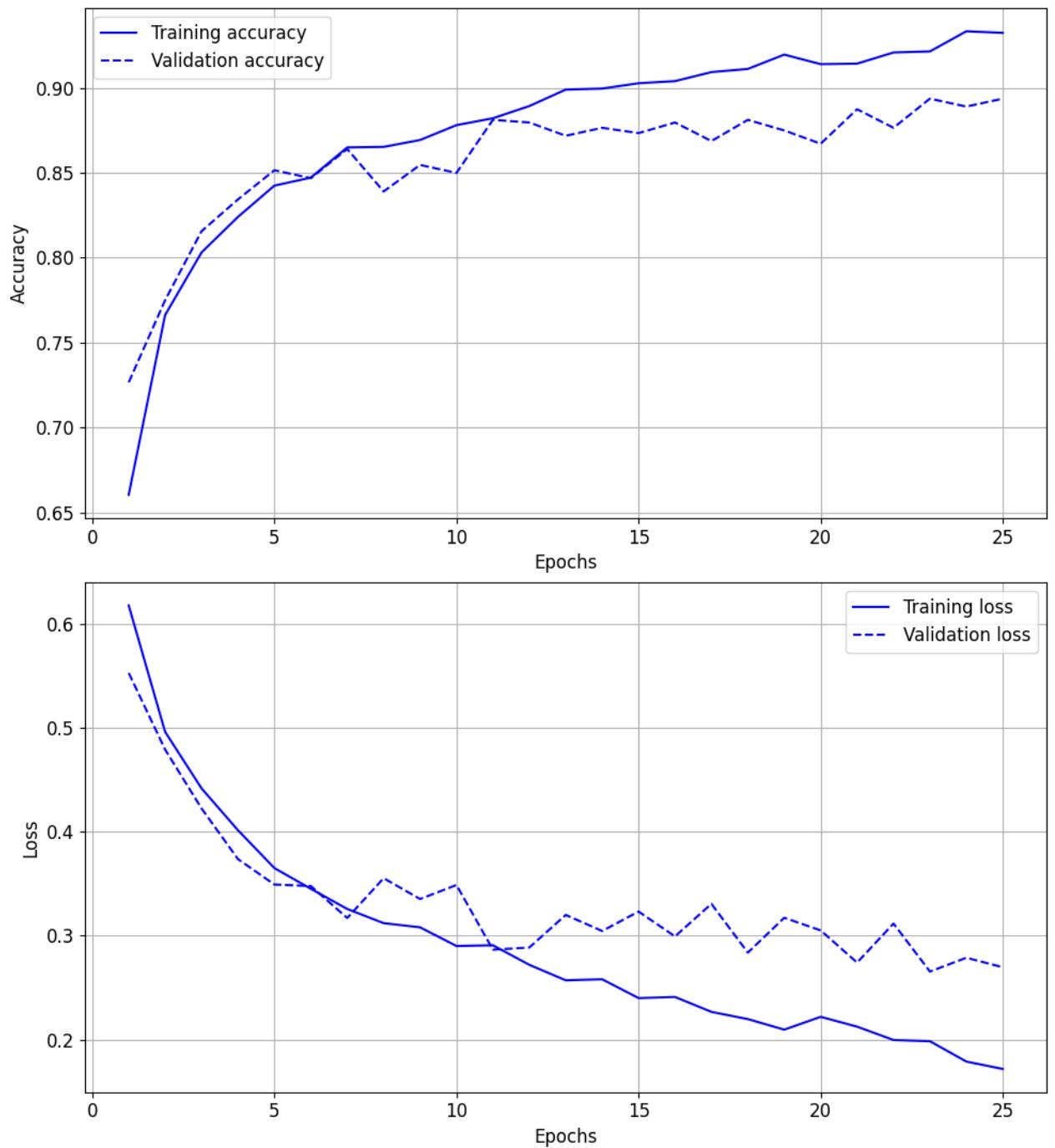
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9204	0.8721	0.8956	477
muffin	0.8617	0.9135	0.8868	416
micro avg	0.8914	0.8914	0.8914	893
macro avg	0.8910	0.8928	0.8912	893
weighted avg	0.8930	0.8914	0.8915	893
samples avg	0.8914	0.8914	0.8914	893

trial_59

- *Start Time:* 2024-10-20 12:06:51
- *Duration:* 33.295
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.23734973624048822
learning_rate	3.363843720343416e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9169	0.9016	0.8914
precision	0.9169	0.9016	0.8914
recall	0.9169	0.9016	0.8914
f1	0.9169	0.9016	0.8914

Figures:

Model Summary

Model: "sequential"

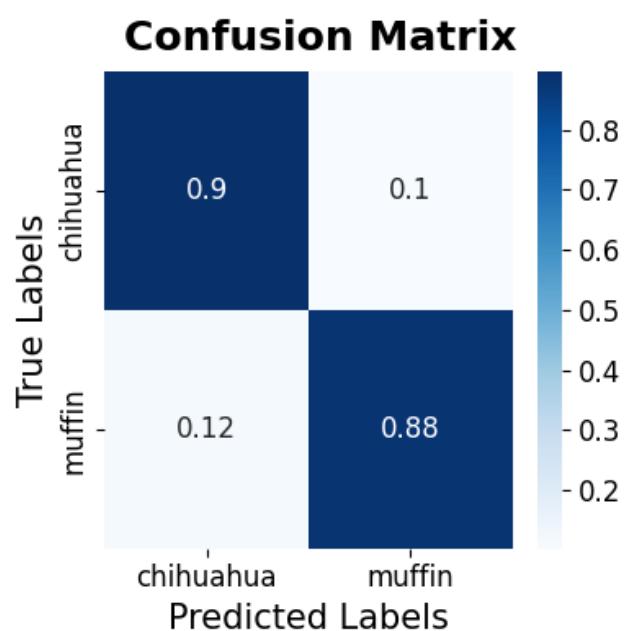
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,964,552 (30.38 MB)

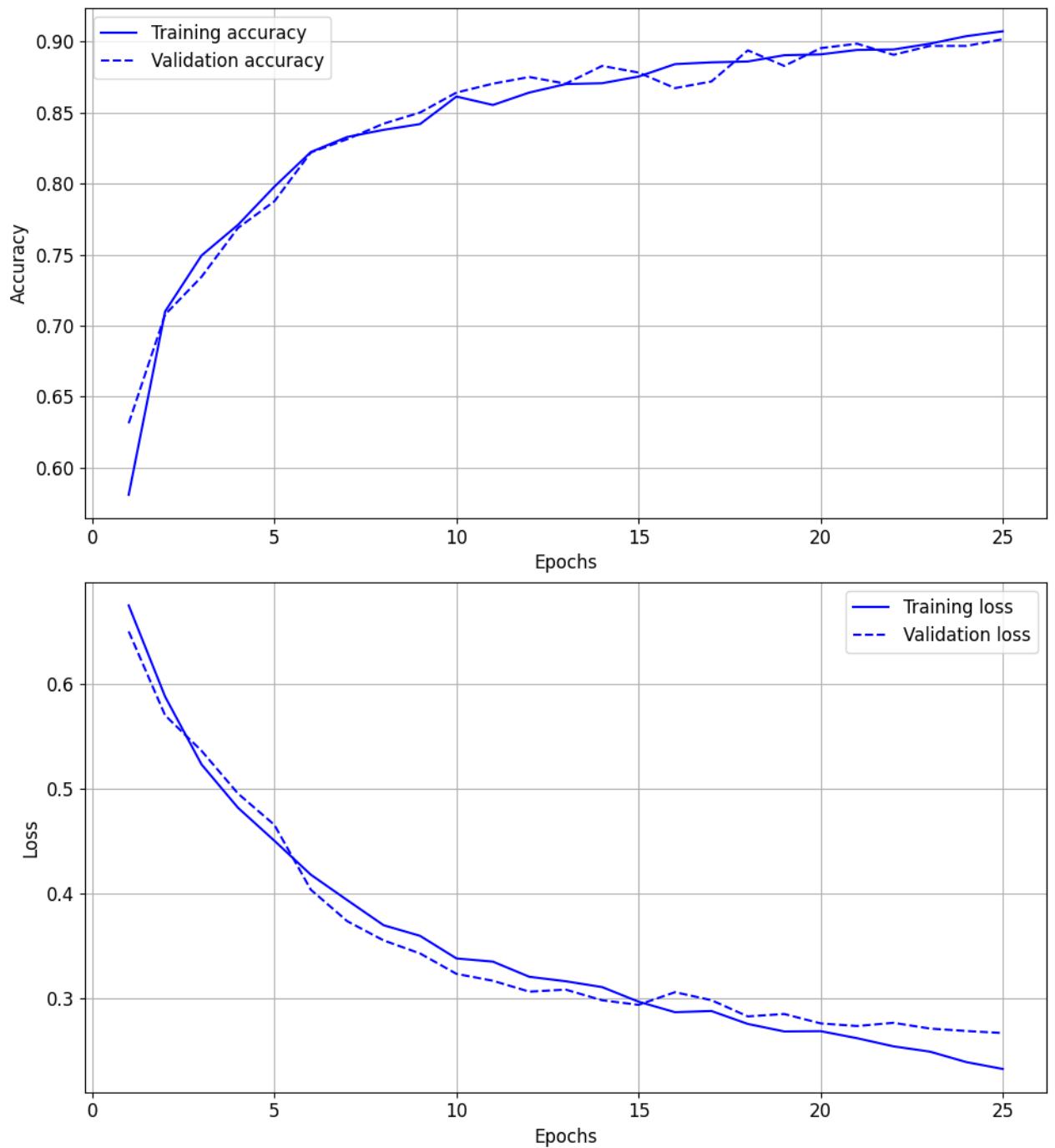
Trainable params: 2,654,850 (10.13 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,309,702 (20.25 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8992	0.8973	0.8982	477
muffin	0.8825	0.8846	0.8836	416
micro avg	0.8914	0.8914	0.8914	893
macro avg	0.8908	0.8909	0.8909	893
weighted avg	0.8914	0.8914	0.8914	893
samples avg	0.8914	0.8914	0.8914	893

trial_67

- *Start Time:* 2024-10-20 12:11:04
- *Duration:* 33.216
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.22399197319489095
learning_rate	6.077797947394223e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9222	0.8922	0.8914
precision	0.9222	0.8922	0.8914
recall	0.9222	0.8922	0.8914
f1	0.9222	0.8922	0.8914

Figures:

Model Summary

Model: "sequential"

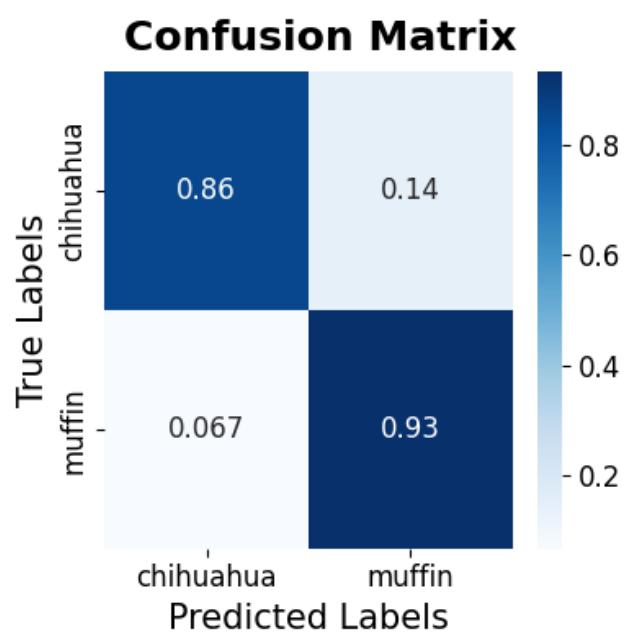
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,964,552 (30.38 MB)

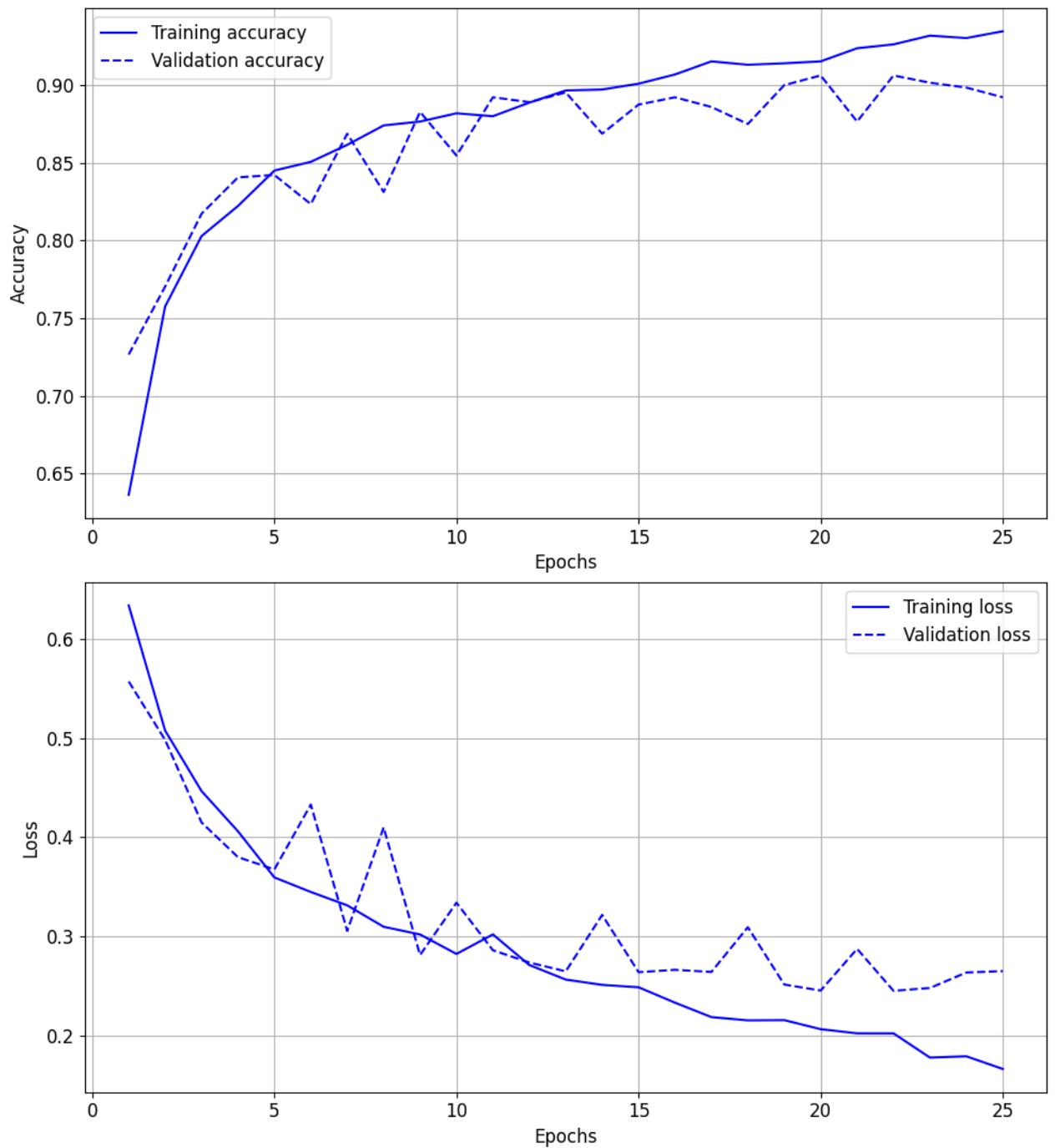
Trainable params: 2,654,850 (10.13 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,309,702 (20.25 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9358	0.8553	0.8938	477
muffin	0.8490	0.9327	0.8889	416
micro avg	0.8914	0.8914	0.8914	893
macro avg	0.8924	0.8940	0.8913	893
weighted avg	0.8954	0.8914	0.8915	893
samples avg	0.8914	0.8914	0.8914	893

trial_85

- *Start Time:* 2024-10-20 12:20:32
- *Duration:* 25.213
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	3
dense_units	256
dropout_rate	0.26506799371902673
learning_rate	0.0003638055946523595

Evaluation Metrics:

	train	val	test
accuracy	0.9978	0.8938	0.8914
precision	0.9978	0.8938	0.8914
recall	0.9978	0.8938	0.8914
f1	0.9978	0.8937	0.8914

Figures:

Model Summary

Model: "sequential"

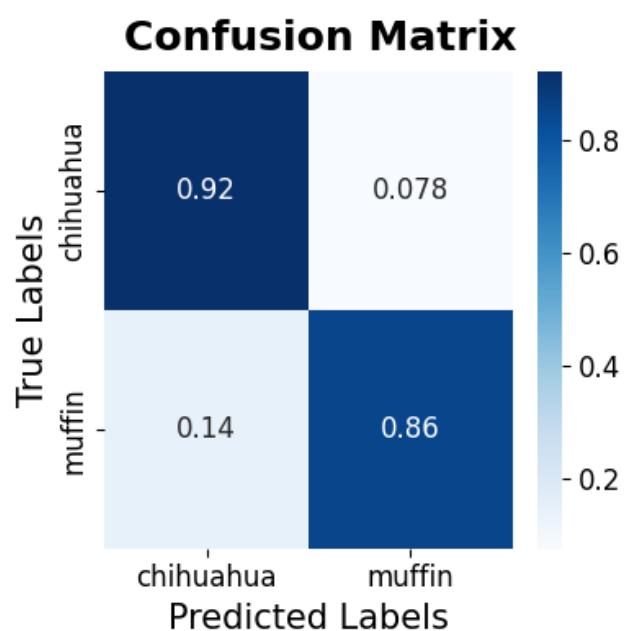
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 61, 61, 64)	73,792
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 64)	0
conv2d_2 (Conv2D)	(None, 28, 28, 64)	36,928
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 64)	0
flatten (Flatten)	(None, 12544)	0
dense (Dense)	(None, 256)	3,211,520
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 10,176,392 (38.82 MB)

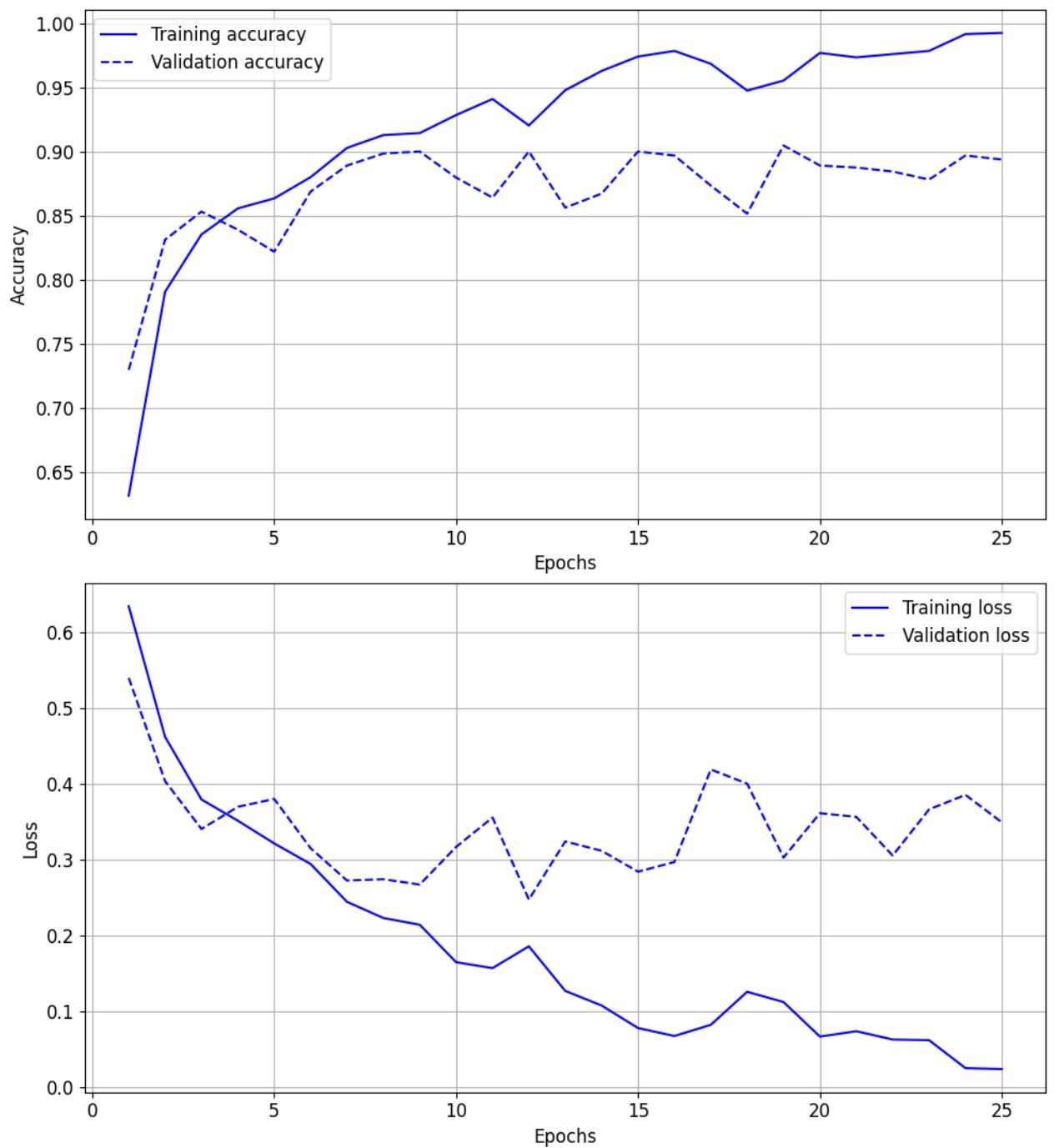
Trainable params: 3,392,130 (12.94 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 6,784,262 (25.88 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8800	0.9224	0.9007	477
muffin	0.9059	0.8558	0.8801	416
micro avg	0.8914	0.8914	0.8914	893
macro avg	0.8929	0.8891	0.8904	893
weighted avg	0.8920	0.8914	0.8911	893
samples avg	0.8914	0.8914	0.8914	893

trial_88

- *Start Time:* 2024-10-20 12:22:05
- *Duration:* 32.889
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.23850497362866155
learning_rate	4.658600117151529e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9287	0.9016	0.8914
precision	0.9287	0.9016	0.8914
recall	0.9287	0.9016	0.8914
f1	0.9287	0.9016	0.8914

Figures:

Model Summary

Model: "sequential"

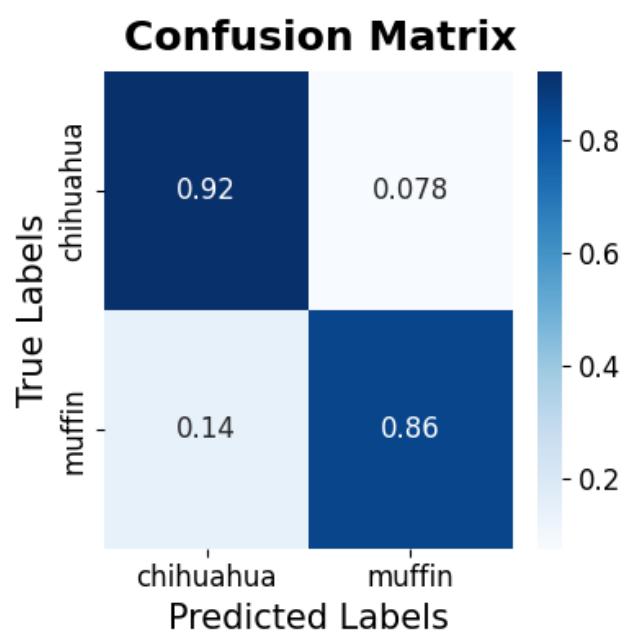
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

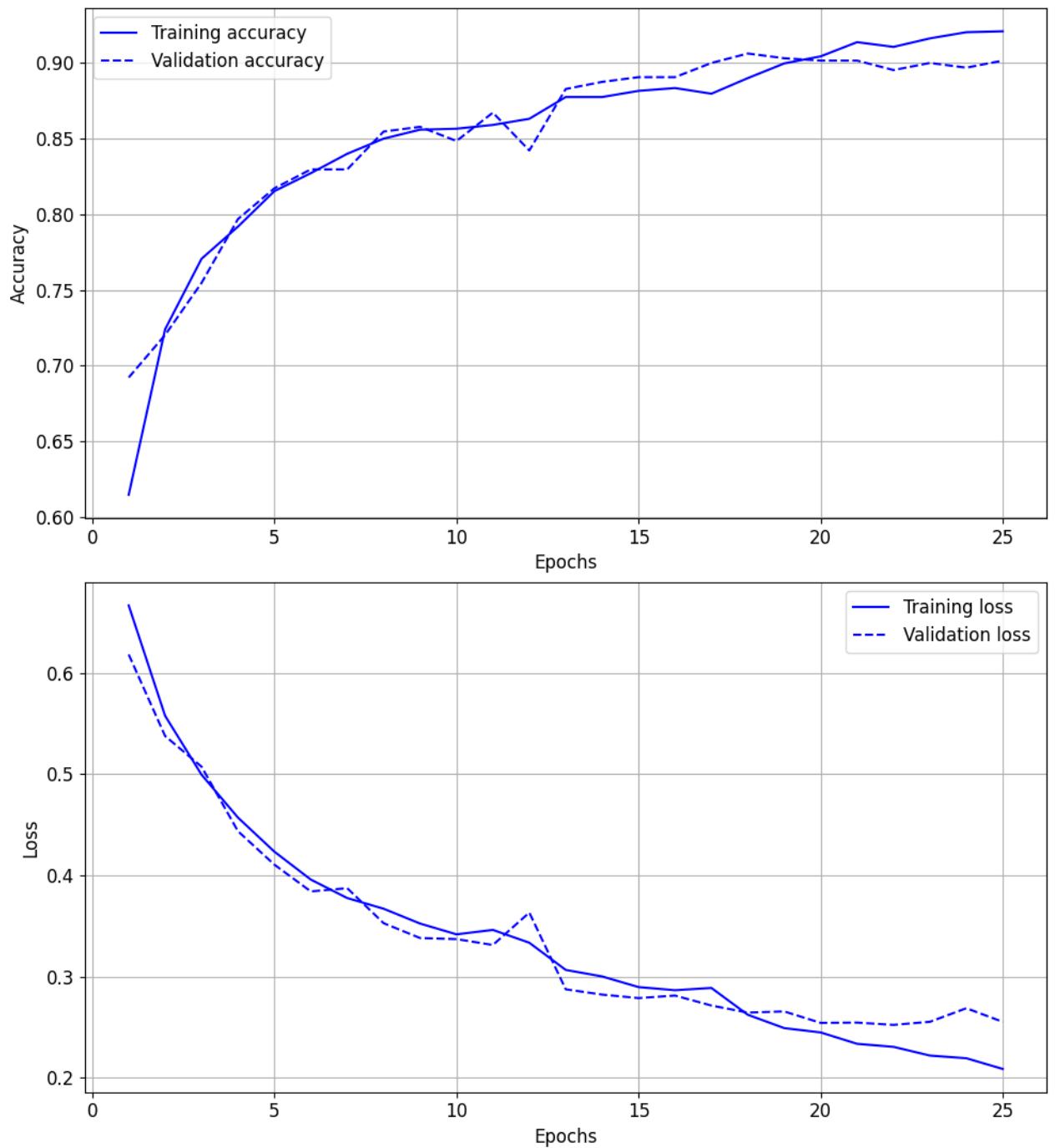
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8800	0.9224	0.9007	477
muffin	0.9059	0.8558	0.8801	416
micro avg	0.8914	0.8914	0.8914	893
macro avg	0.8929	0.8891	0.8904	893
weighted avg	0.8920	0.8914	0.8911	893
samples avg	0.8914	0.8914	0.8914	893

trial_97

- *Start Time:* 2024-10-20 12:27:00
- *Duration:* 32.958
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.28021837387631926
learning_rate	3.076777375370746e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8978	0.8906	0.8914
precision	0.8978	0.8906	0.8914
recall	0.8978	0.8906	0.8914
f1	0.8978	0.8906	0.8914

Figures:

Model Summary

Model: "sequential"

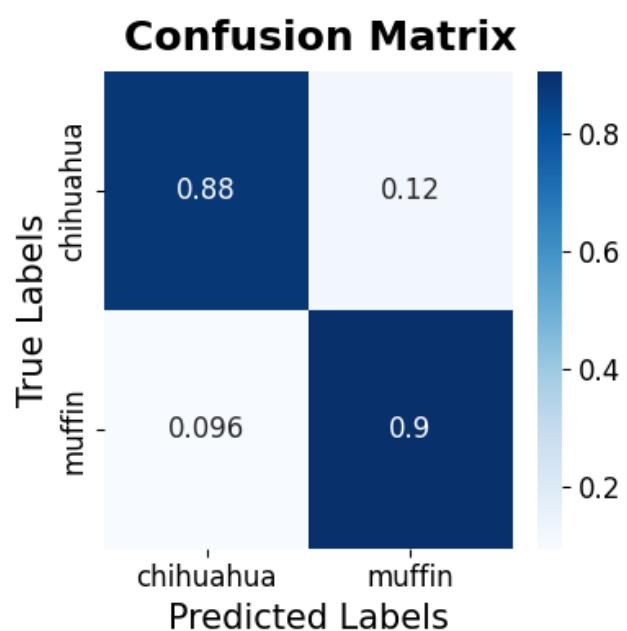
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

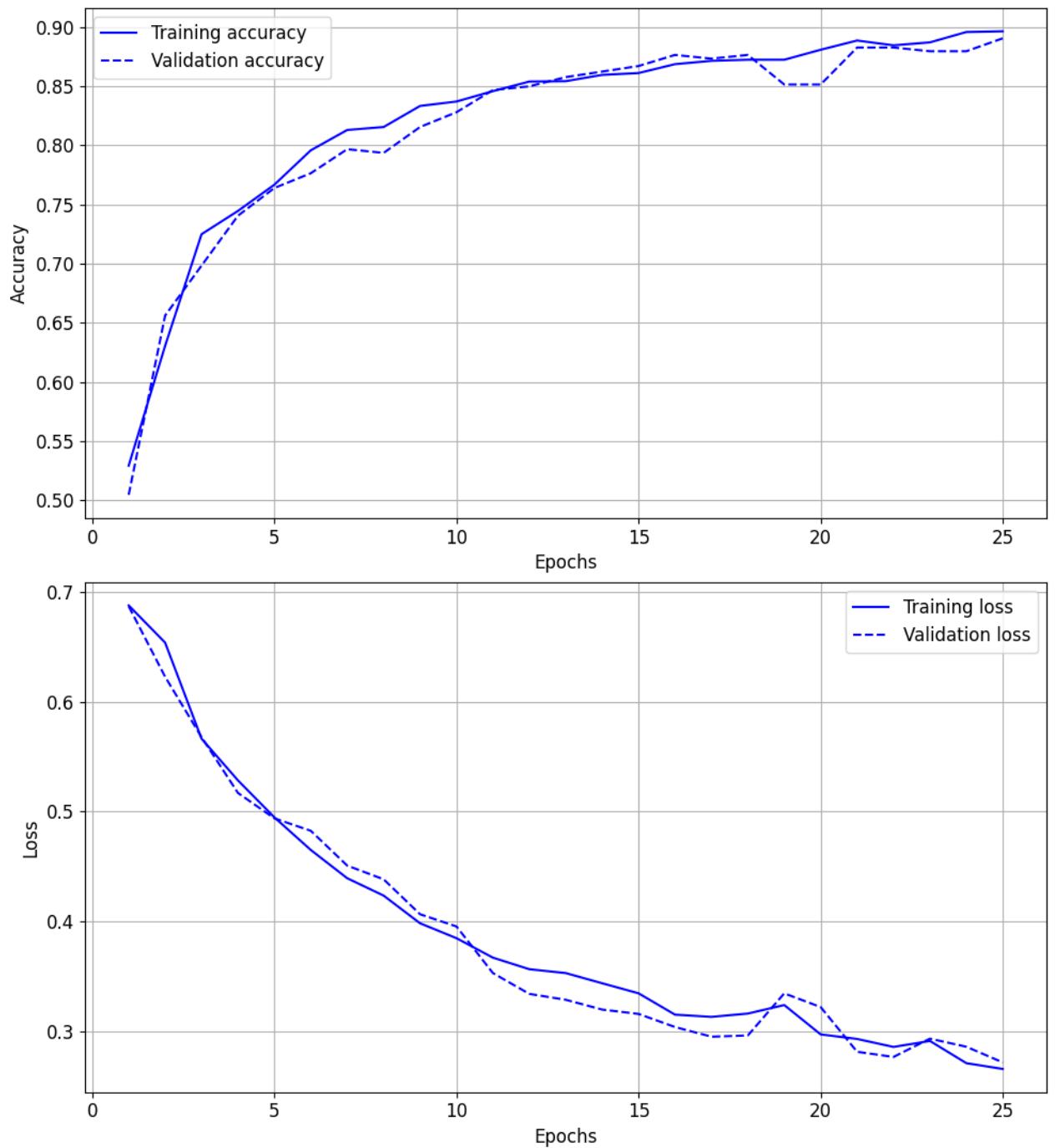
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9130	0.8805	0.8965	477
muffin	0.8684	0.9038	0.8857	416
micro avg	0.8914	0.8914	0.8914	893
macro avg	0.8907	0.8922	0.8911	893
weighted avg	0.8922	0.8914	0.8915	893
samples avg	0.8914	0.8914	0.8914	893

trial_73

- *Start Time:* 2024-10-20 12:14:01
- *Duration:* 22.110
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.15064163870305483
learning_rate	0.000100232377282223

Evaluation Metrics:

	train	val	test
accuracy	0.9613	0.8828	0.8903
precision	0.9613	0.8828	0.8903
recall	0.9613	0.8828	0.8903
f1	0.9612	0.8828	0.8903

Figures:

Model Summary

Model: "sequential"

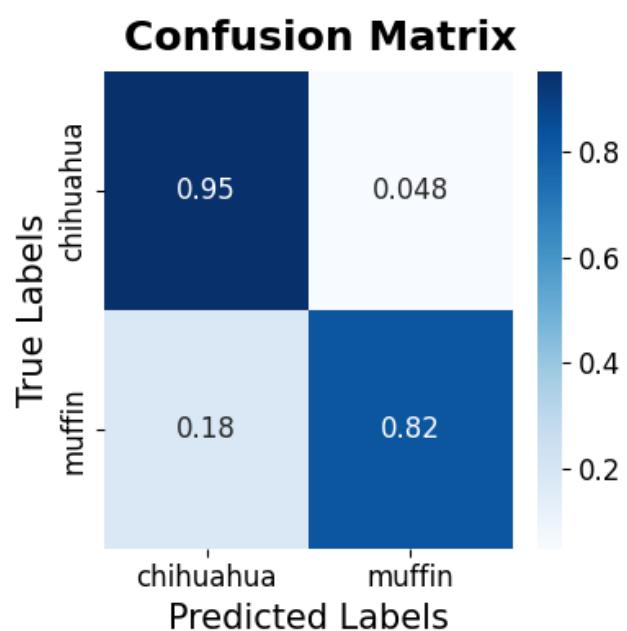
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 64)	1,792
max_pooling2d (MaxPooling2D)	(None, 63, 63, 64)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	200,768
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,234,376 (16.15 MB)

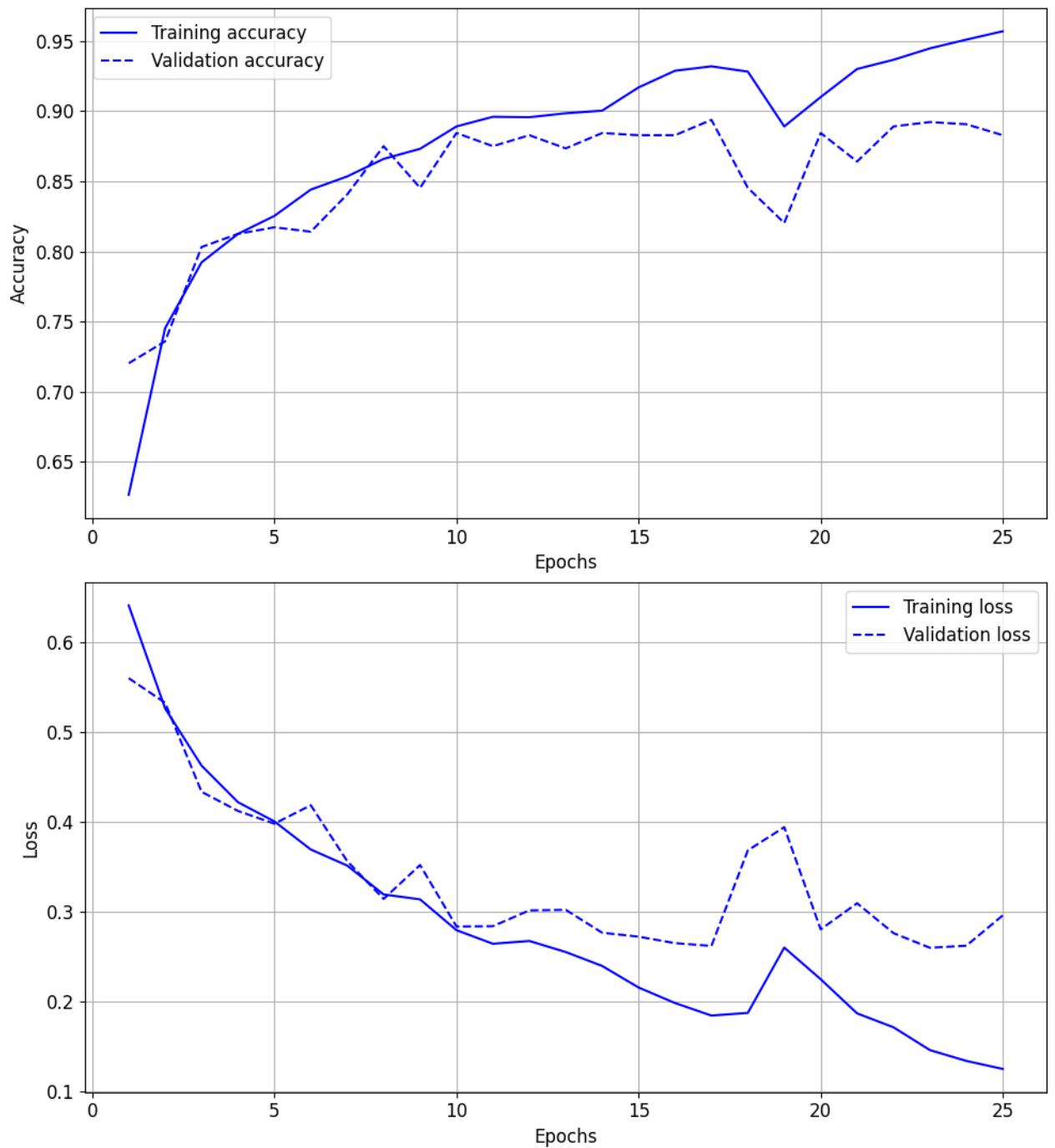
Trainable params: 1,411,458 (5.38 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 2,822,918 (10.77 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8582	0.9518	0.9026	477
muffin	0.9368	0.8197	0.8744	416
micro avg	0.8903	0.8903	0.8903	893
macro avg	0.8975	0.8857	0.8885	893
weighted avg	0.8948	0.8903	0.8894	893
samples avg	0.8903	0.8903	0.8903	893

trial_74

- *Start Time:* 2024-10-20 12:14:24
- *Duration:* 22.082
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.11706417024548972
learning_rate	5.477134743619495e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9287	0.8906	0.8903
precision	0.9287	0.8906	0.8903
recall	0.9287	0.8906	0.8903
f1	0.9287	0.8906	0.8903

Figures:

Model Summary

Model: "sequential"

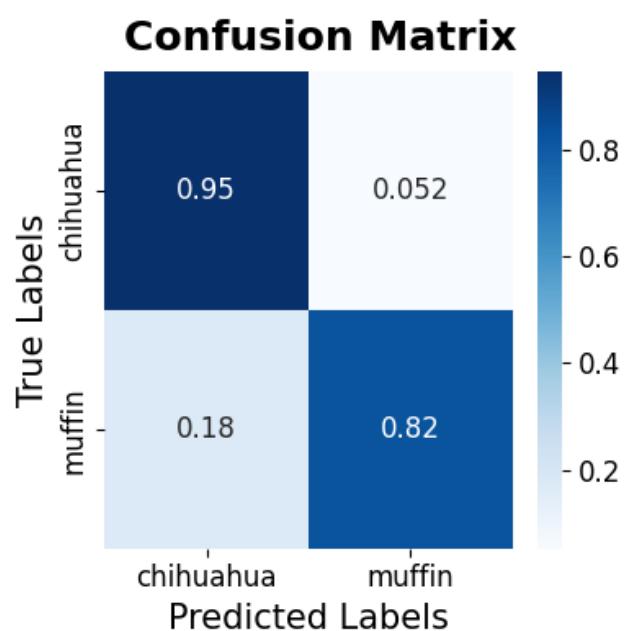
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 64)	1,792
max_pooling2d (MaxPooling2D)	(None, 63, 63, 64)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	200,768
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,234,376 (16.15 MB)

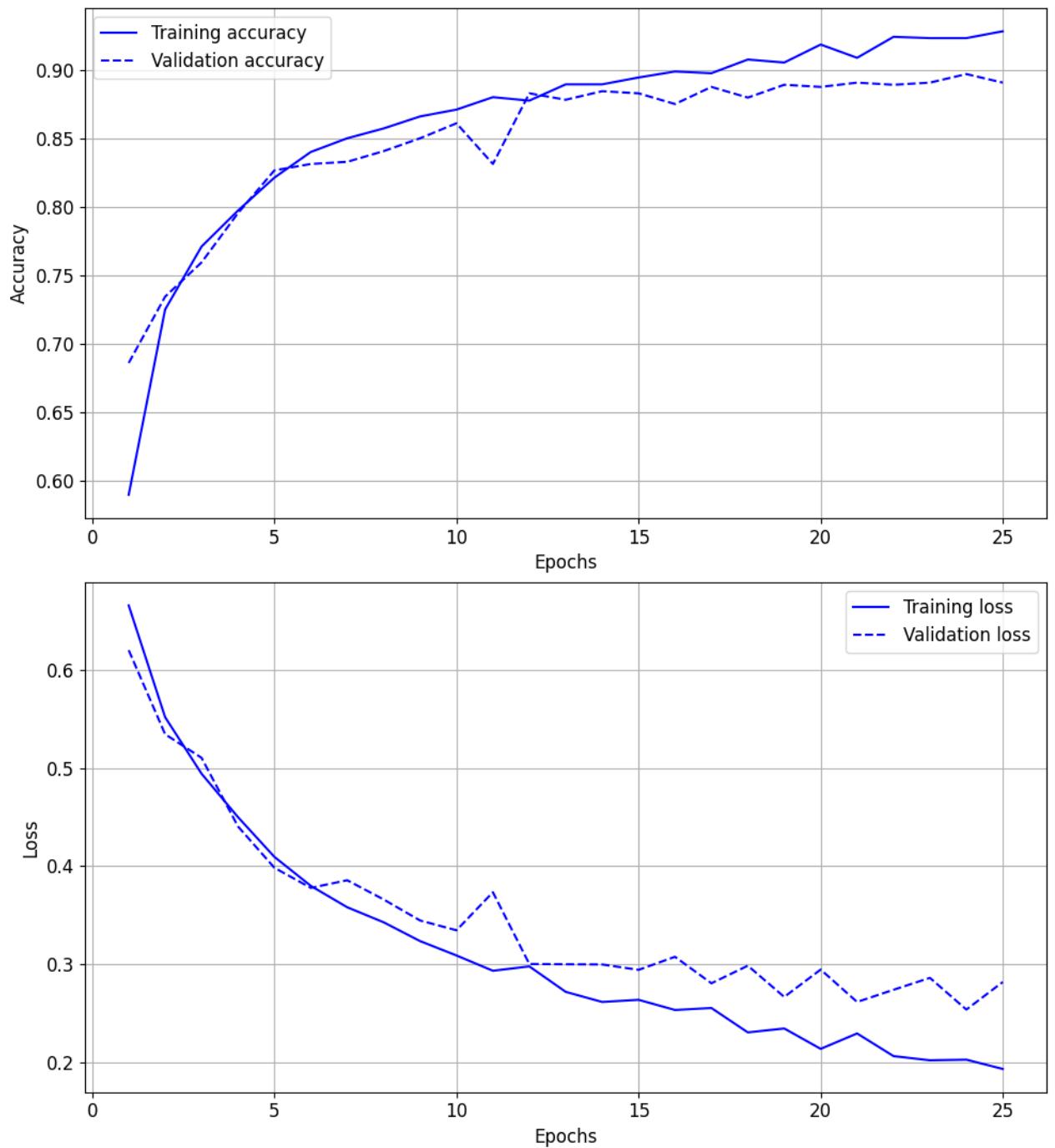
Trainable params: 1,411,458 (5.38 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 2,822,918 (10.77 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8610	0.9476	0.9022	477
muffin	0.9321	0.8245	0.8750	416
micro avg	0.8903	0.8903	0.8903	893
macro avg	0.8965	0.8861	0.8886	893
weighted avg	0.8941	0.8903	0.8895	893
samples avg	0.8903	0.8903	0.8903	893

trial_99

- *Start Time:* 2024-10-20 12:28:03
- *Duration:* 32.889
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.24789844907416078
learning_rate	4.492337467390401e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9162	0.8875	0.8903
precision	0.9162	0.8875	0.8903
recall	0.9162	0.8875	0.8903
f1	0.9162	0.8875	0.8903

Figures:

Model Summary

Model: "sequential"

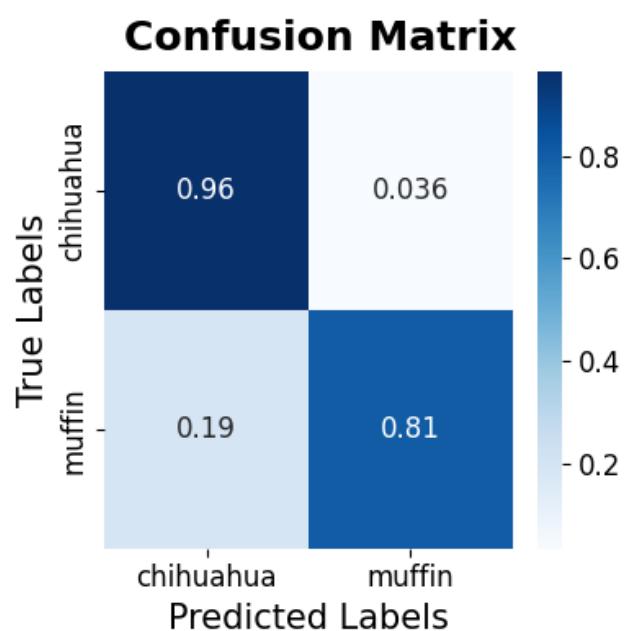
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

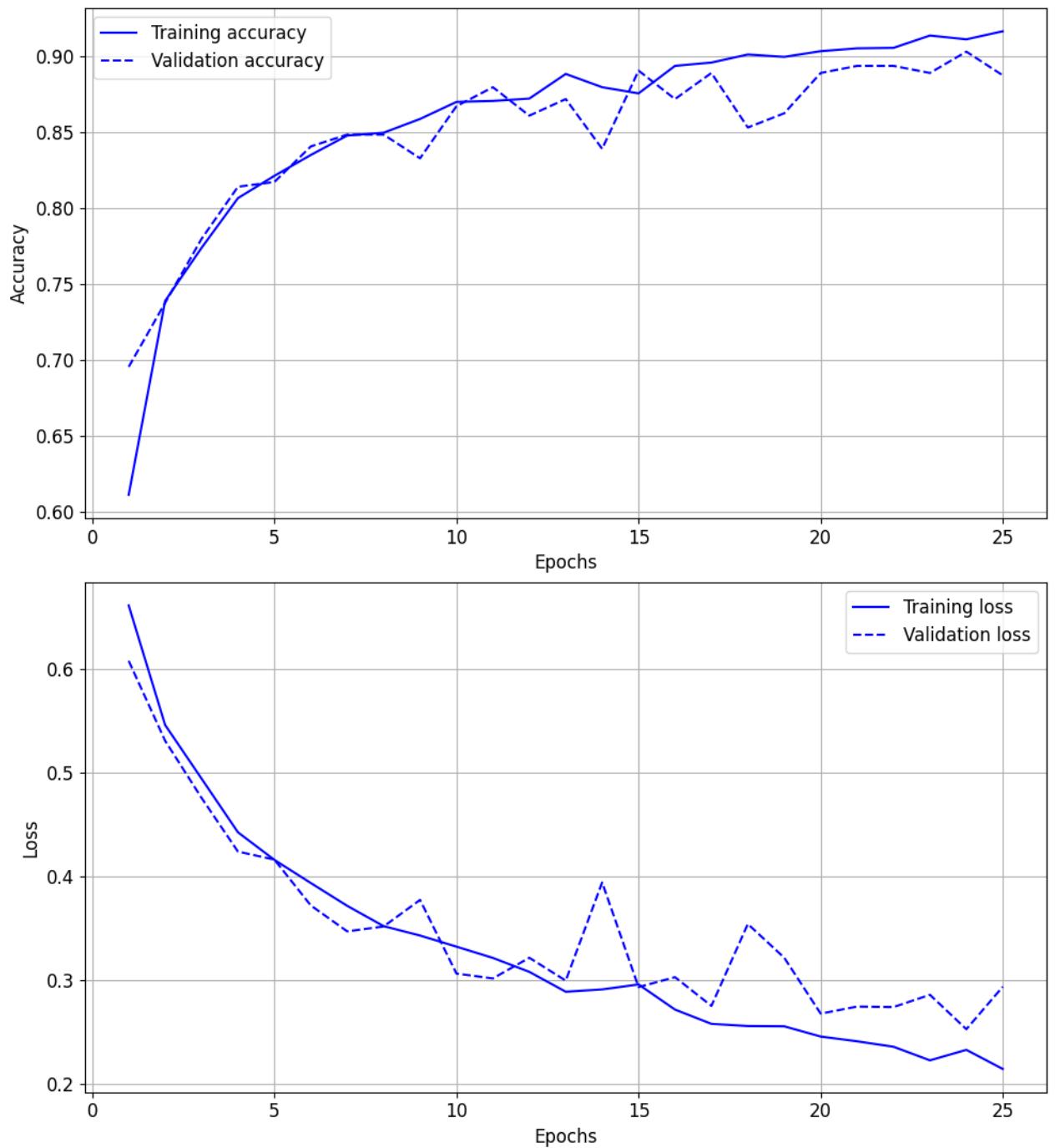
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8503	0.9644	0.9037	477
muffin	0.9517	0.8053	0.8724	416
micro avg	0.8903	0.8903	0.8903	893
macro avg	0.9010	0.8848	0.8881	893
weighted avg	0.8975	0.8903	0.8891	893
samples avg	0.8903	0.8903	0.8903	893

trial_80

- *Start Time:* 2024-10-20 12:17:30
- *Duration:* 33.843
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	5
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.1720125978938315
learning_rate	0.00014725953698654093

Evaluation Metrics:

	train	val	test
accuracy	0.9797	0.8922	0.8891
precision	0.9797	0.8922	0.8891
recall	0.9797	0.8922	0.8891
f1	0.9797	0.8922	0.8891

Figures:

Model Summary

Model: "sequential"

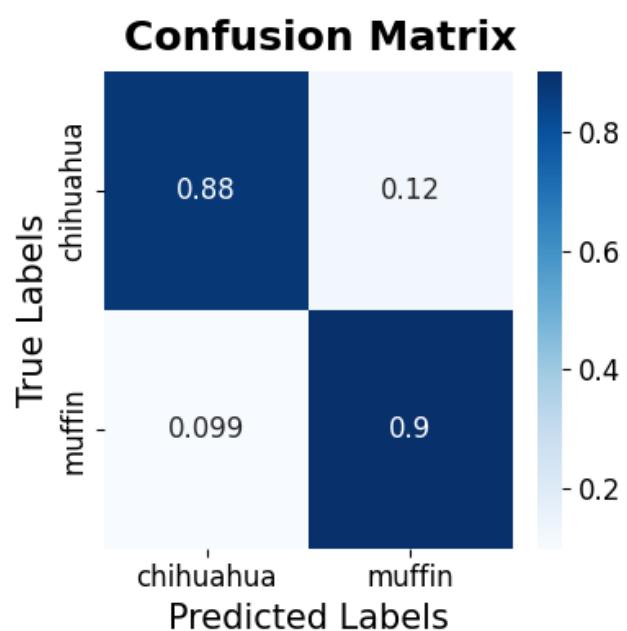
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 128)	9,728
max_pooling2d (MaxPooling2D)	(None, 62, 62, 128)	0
conv2d_1 (Conv2D)	(None, 56, 56, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,982,984 (30.45 MB)

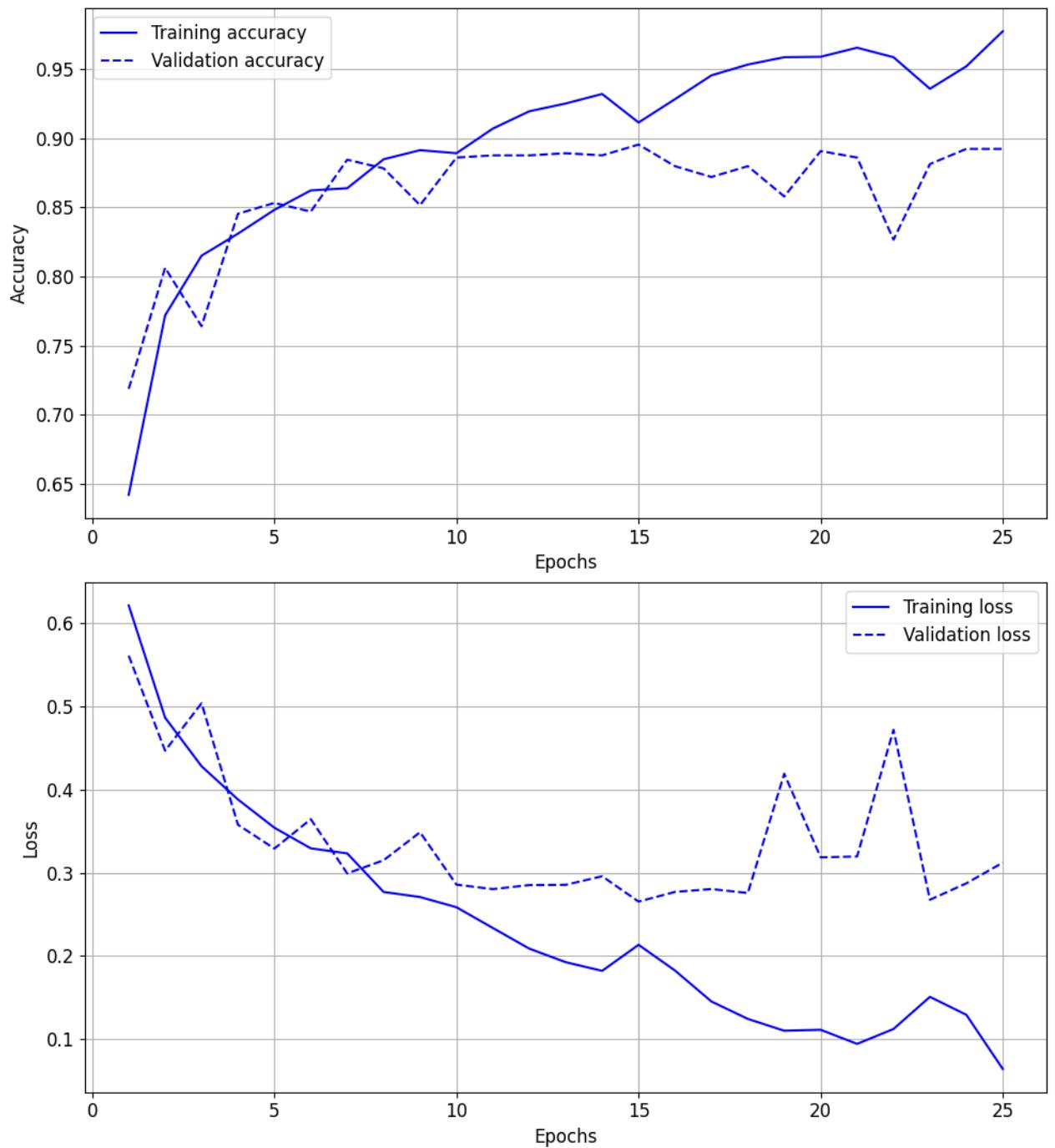
Trainable params: 2,660,994 (10.15 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,321,990 (20.30 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9109	0.8784	0.8943	477
muffin	0.8661	0.9014	0.8834	416
micro avg	0.8891	0.8891	0.8891	893
macro avg	0.8885	0.8899	0.8889	893
weighted avg	0.8900	0.8891	0.8892	893
samples avg	0.8891	0.8891	0.8891	893

trial_87

- *Start Time:* 2024-10-20 12:21:30
- *Duration:* 33.247
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	512
dropout_rate	0.13316909522628706
learning_rate	0.00019327426145732113

Evaluation Metrics:

	train	val	test
accuracy	0.9531	0.8734	0.8891
precision	0.9531	0.8734	0.8891
recall	0.9531	0.8734	0.8891
f1	0.9531	0.8734	0.8891

Figures:

Model Summary

Model: "sequential"

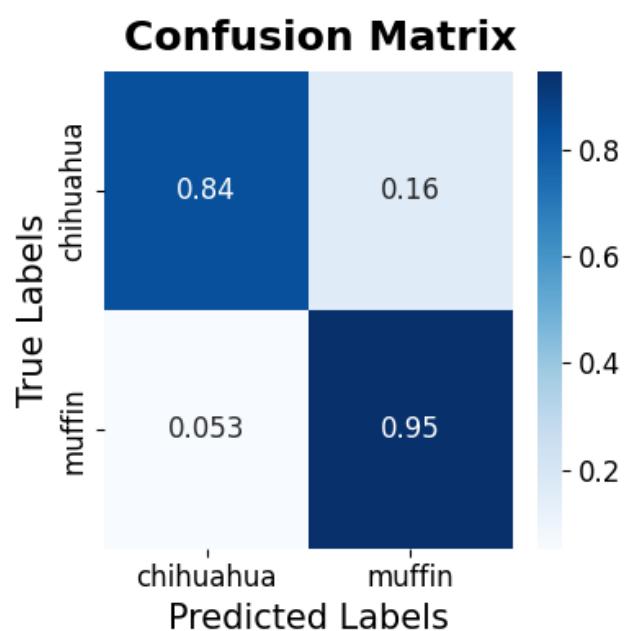
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 512)	3,965,440
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 14,504,840 (55.33 MB)

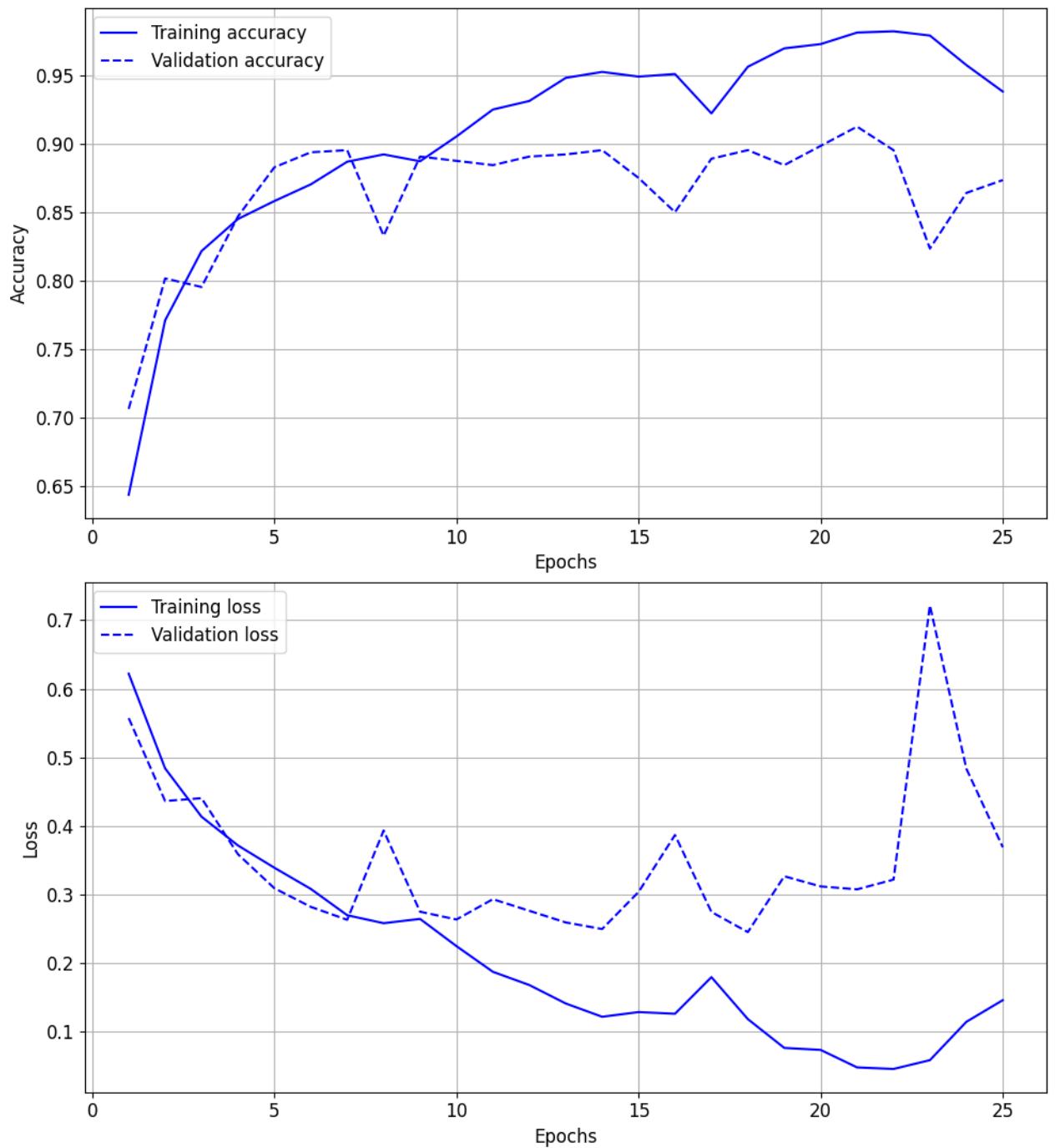
Trainable params: 4,834,946 (18.44 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 9,669,894 (36.89 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9479	0.8386	0.8899	477
muffin	0.8365	0.9471	0.8884	416
micro avg	0.8891	0.8891	0.8891	893
macro avg	0.8922	0.8928	0.8891	893
weighted avg	0.8960	0.8891	0.8892	893
samples avg	0.8891	0.8891	0.8891	893

trial_24

- *Start Time:* 2024-10-20 11:48:20
- *Duration:* 25.119
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	3
dense_units	256
dropout_rate	0.07928769039582001
learning_rate	4.088736404840006e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9316	0.8984	0.8880
precision	0.9316	0.8984	0.8880
recall	0.9316	0.8984	0.8880
f1	0.9316	0.8984	0.8880

Figures:

Model Summary

Model: "sequential"

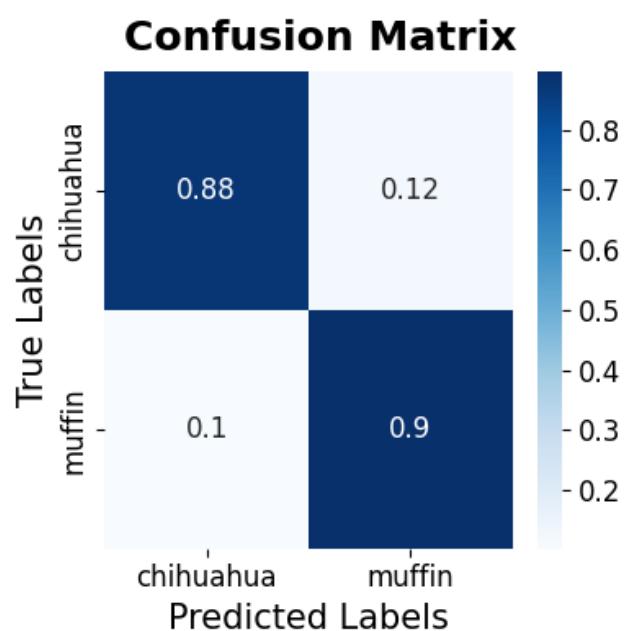
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 61, 61, 64)	73,792
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 64)	0
conv2d_2 (Conv2D)	(None, 28, 28, 64)	36,928
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 64)	0
flatten (Flatten)	(None, 12544)	0
dense (Dense)	(None, 256)	3,211,520
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 10,176,392 (38.82 MB)

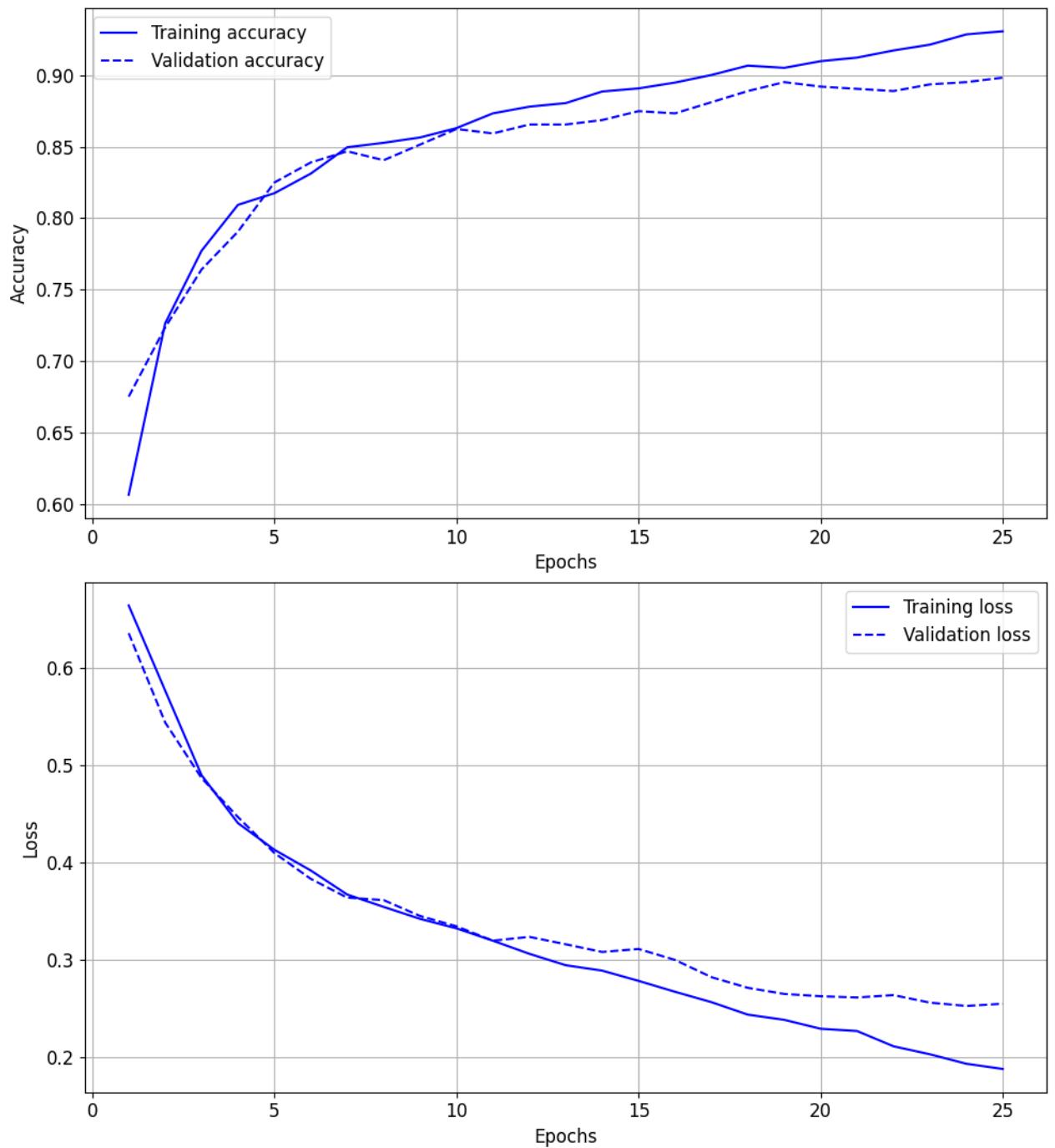
Trainable params: 3,392,130 (12.94 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 6,784,262 (25.88 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9071	0.8805	0.8936	477
muffin	0.8674	0.8966	0.8818	416
micro avg	0.8880	0.8880	0.8880	893
macro avg	0.8873	0.8886	0.8877	893
weighted avg	0.8886	0.8880	0.8881	893
samples avg	0.8880	0.8880	0.8880	893

trial_27

- *Start Time:* 2024-10-20 11:49:38
- *Duration:* 21.172
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	5
units2	64
kernel_size2	5
dense_units	256
dropout_rate	0.1693889449514277
learning_rate	4.069924895131436e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9259	0.8797	0.8880
precision	0.9259	0.8797	0.8880
recall	0.9259	0.8797	0.8880
f1	0.9259	0.8797	0.8880

Figures:

Model Summary

Model: "sequential"

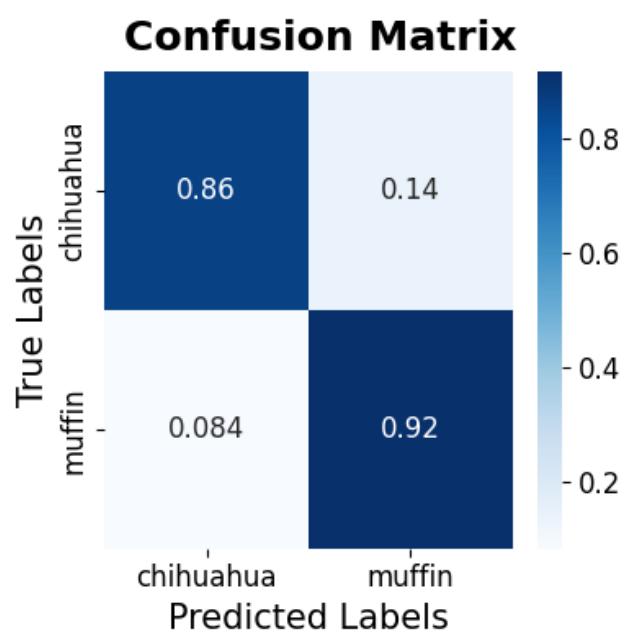
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 64)	4,864
max_pooling2d (MaxPooling2D)	(None, 62, 62, 64)	0
conv2d_1 (Conv2D)	(None, 58, 58, 64)	102,464
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 256)	2,359,552
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,906,952 (30.16 MB)

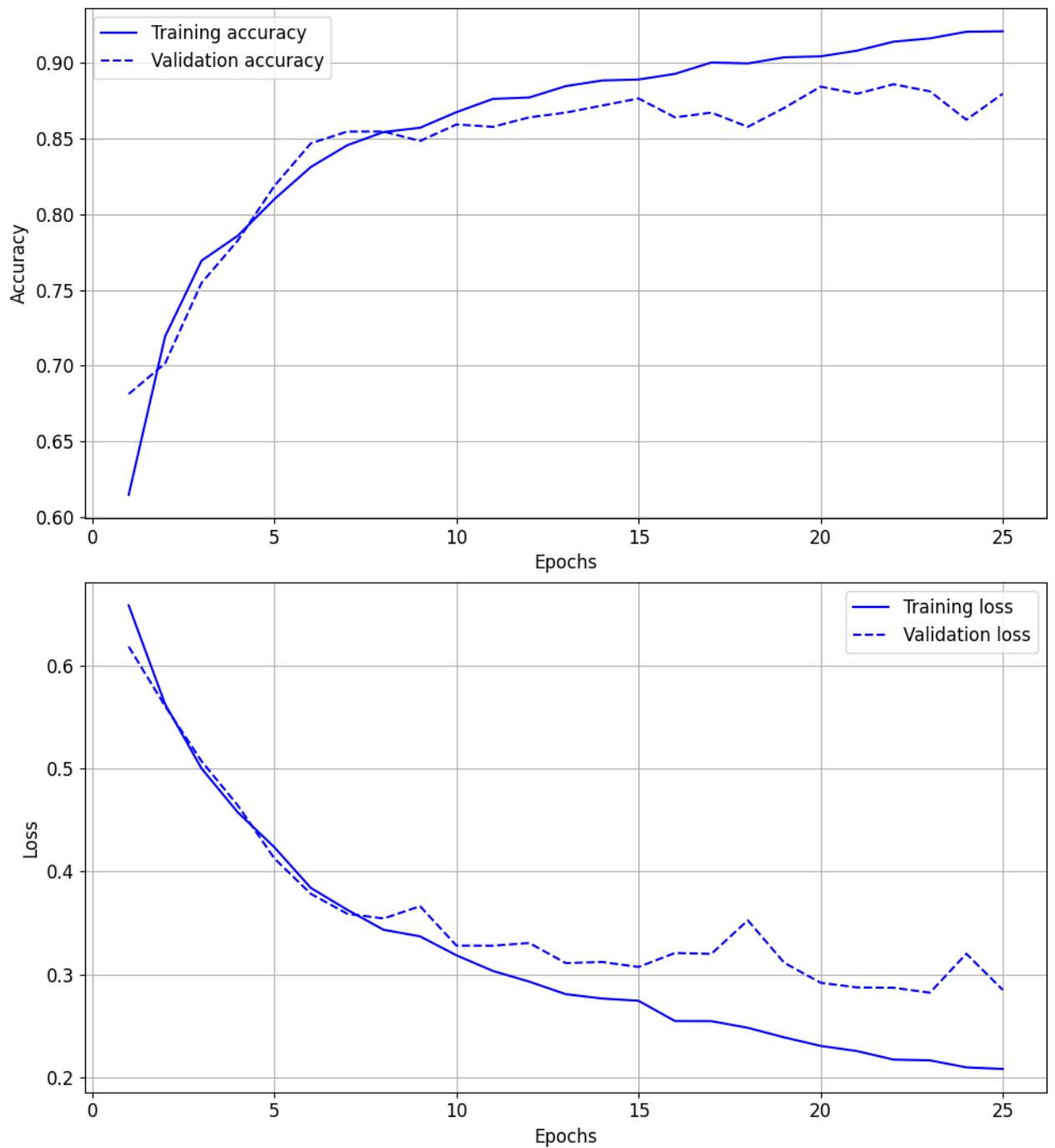
Trainable params: 2,635,650 (10.05 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,271,302 (20.11 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9217	0.8637	0.8918	477
muffin	0.8543	0.9159	0.8840	416
micro avg	0.8880	0.8880	0.8880	893
macro avg	0.8880	0.8898	0.8879	893
weighted avg	0.8903	0.8880	0.8881	893
samples avg	0.8880	0.8880	0.8880	893

trial_68

- *Start Time:* 2024-10-20 12:11:38
- *Duration:* 29.435
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	128
dropout_rate	0.13109653104502805
learning_rate	8.754733467486343e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9103	0.8797	0.8880
precision	0.9103	0.8797	0.8880
recall	0.9103	0.8797	0.8880
f1	0.9103	0.8797	0.8880

Figures:

Model Summary

Model: "sequential"

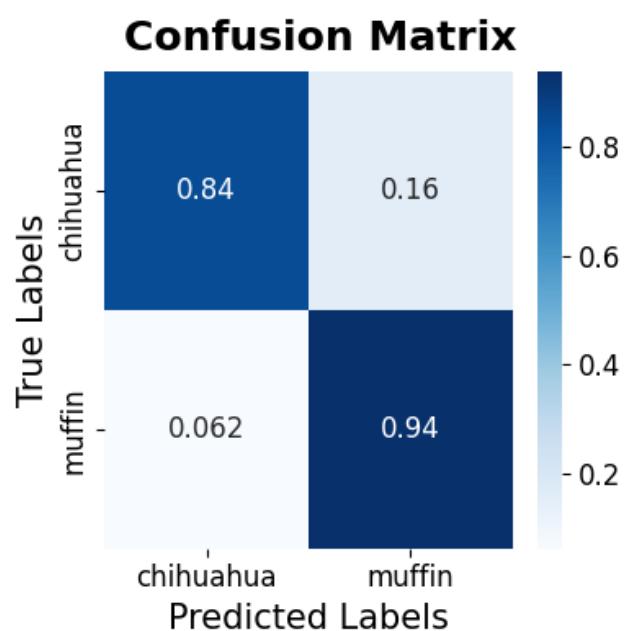
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1,179,776
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,522,376 (17.25 MB)

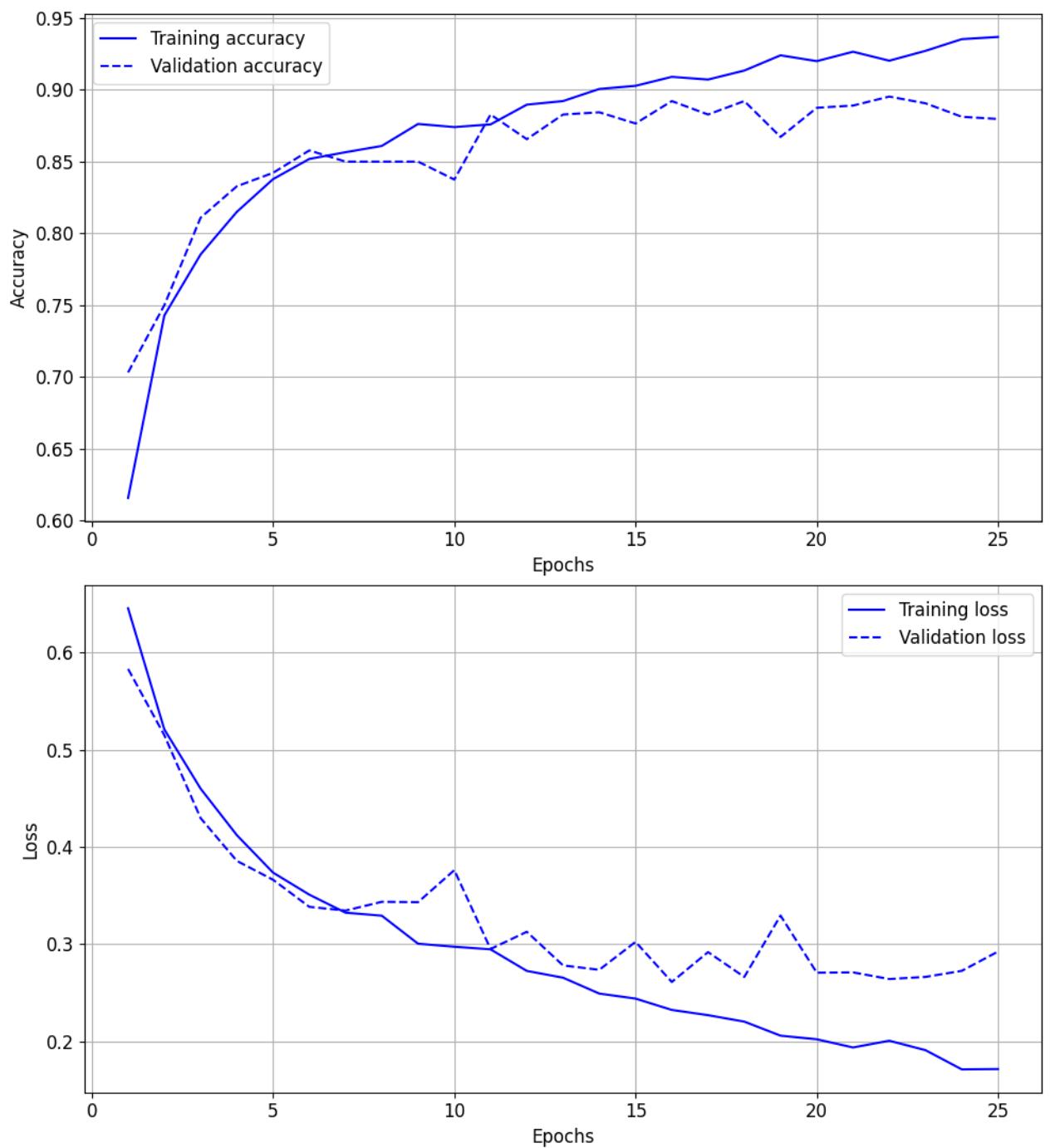
Trainable params: 1,507,458 (5.75 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,014,918 (11.50 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9394	0.8449	0.8896	477
muffin	0.8405	0.9375	0.8864	416
micro avg	0.8880	0.8880	0.8880	893
macro avg	0.8900	0.8912	0.8880	893
weighted avg	0.8933	0.8880	0.8881	893
samples avg	0.8880	0.8880	0.8880	893

trial_54

- *Start Time:* 2024-10-20 12:03:59
- *Duration:* 33.078
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.11888642101807746
learning_rate	2.7378369699168327e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9047	0.8922	0.8869
precision	0.9047	0.8922	0.8869
recall	0.9047	0.8922	0.8869
f1	0.9047	0.8922	0.8869

Figures:

Model Summary

Model: "sequential"

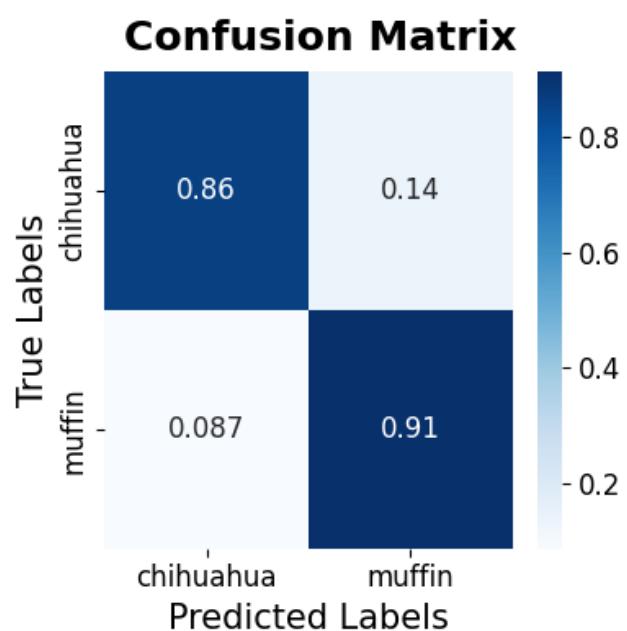
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,964,552 (30.38 MB)

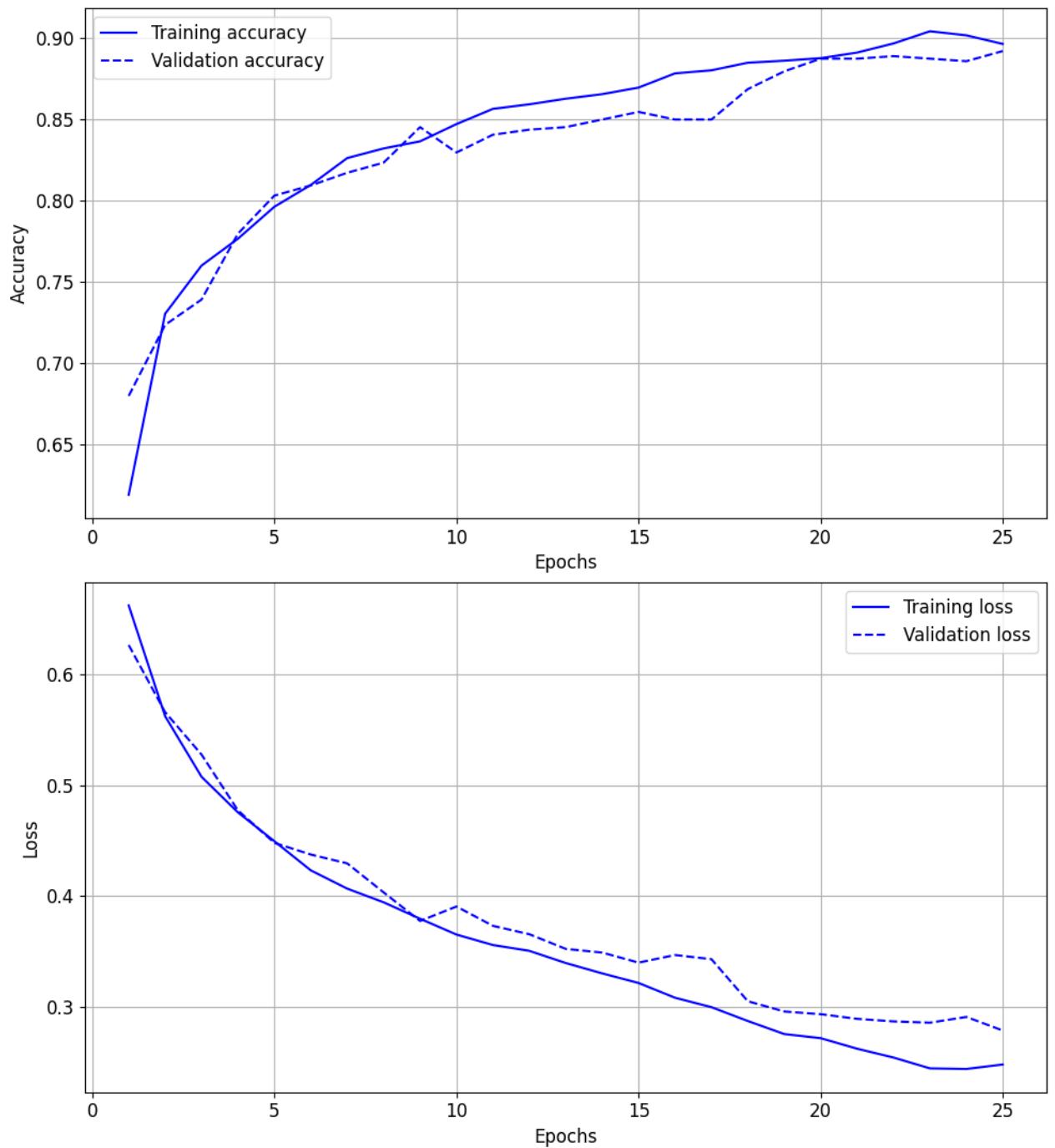
Trainable params: 2,654,850 (10.13 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,309,702 (20.25 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9196	0.8637	0.8908	477
muffin	0.8539	0.9135	0.8827	416
micro avg	0.8869	0.8869	0.8869	893
macro avg	0.8868	0.8886	0.8868	893
weighted avg	0.8890	0.8869	0.8870	893
samples avg	0.8869	0.8869	0.8869	893

trial_72

- *Start Time:* 2024-10-20 12:13:37
- *Duration:* 22.025
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.2099163270406869
learning_rate	6.965882041809298e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9200	0.8828	0.8869
precision	0.9200	0.8828	0.8869
recall	0.9200	0.8828	0.8869
f1	0.9200	0.8828	0.8869

Figures:

Model Summary

Model: "sequential"

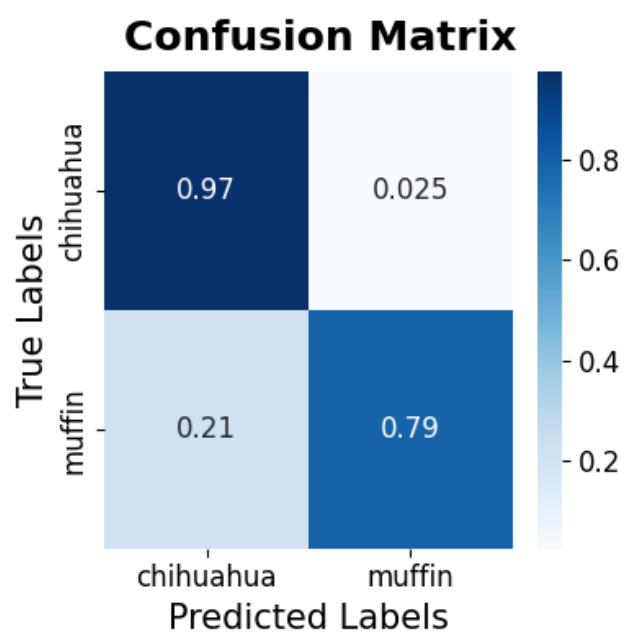
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 64)	1,792
max_pooling2d (MaxPooling2D)	(None, 63, 63, 64)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	200,768
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,234,376 (16.15 MB)

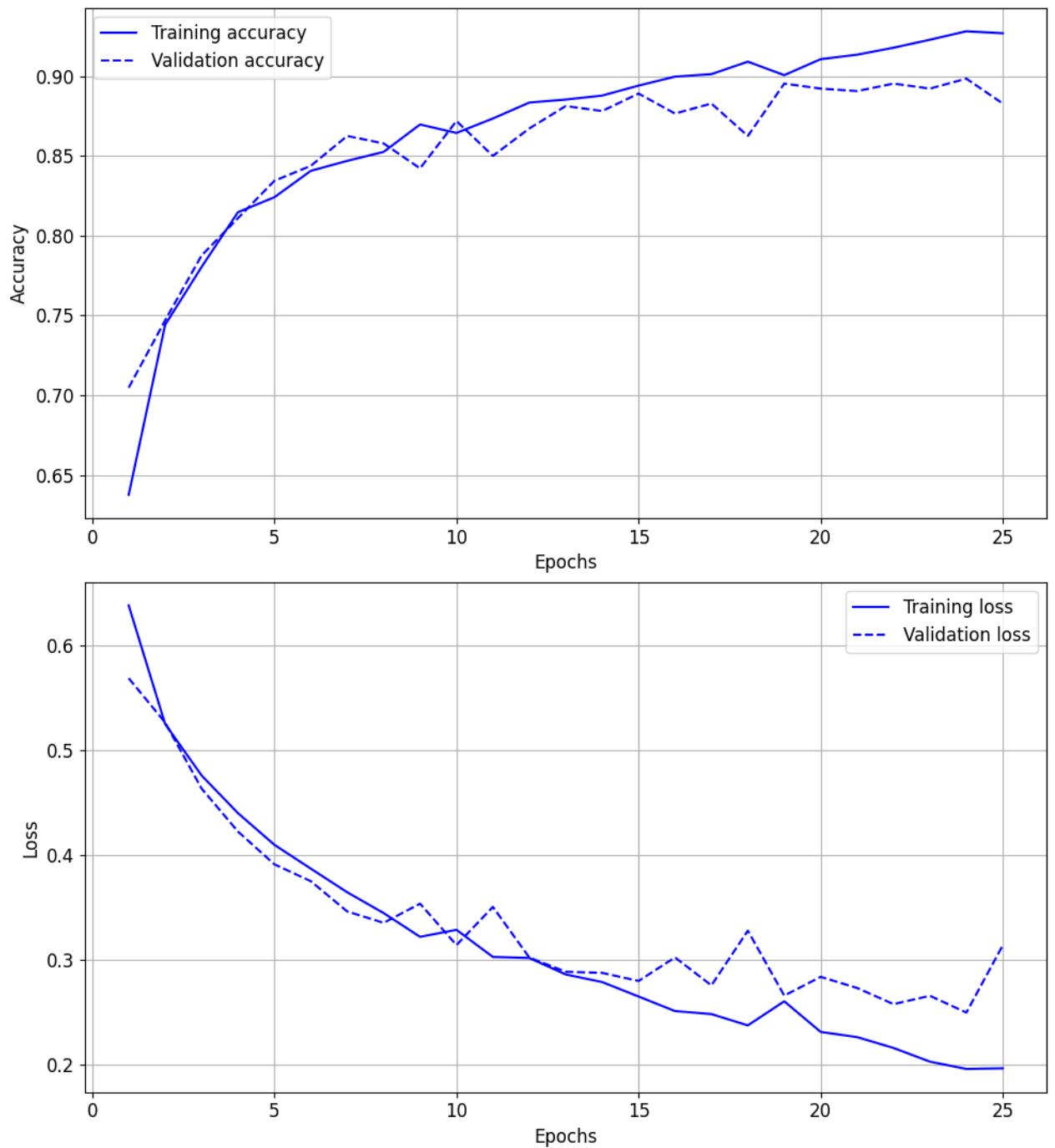
Trainable params: 1,411,458 (5.38 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 2,822,918 (10.77 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8394	0.9748	0.9020	477
muffin	0.9646	0.7861	0.8662	416
micro avg	0.8869	0.8869	0.8869	893
macro avg	0.9020	0.8805	0.8841	893
weighted avg	0.8977	0.8869	0.8854	893
samples avg	0.8869	0.8869	0.8869	893

trial_7

- *Start Time:* 2024-10-20 11:41:23
- *Duration:* 31.741
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	7
units2	64
kernel_size2	5
dense_units	256
dropout_rate	0.2871041535175265
learning_rate	0.000524904647657406

Evaluation Metrics:

	train	val	test
accuracy	0.9994	0.8609	0.8858
precision	0.9994	0.8609	0.8858
recall	0.9994	0.8609	0.8858
f1	0.9994	0.8609	0.8858

Figures:

Model Summary

Model: "sequential"

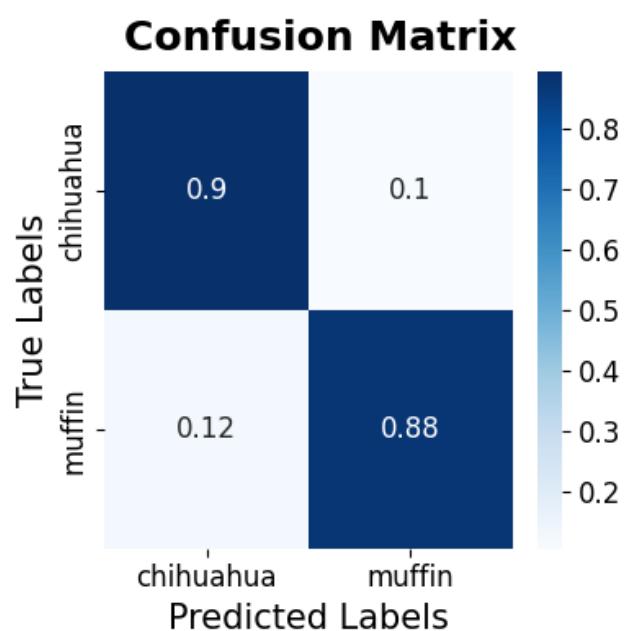
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 122, 122, 128)	18,944
max_pooling2d (MaxPooling2D)	(None, 61, 61, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 24, 24, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 256)	2,359,552
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 8,256,392 (31.50 MB)

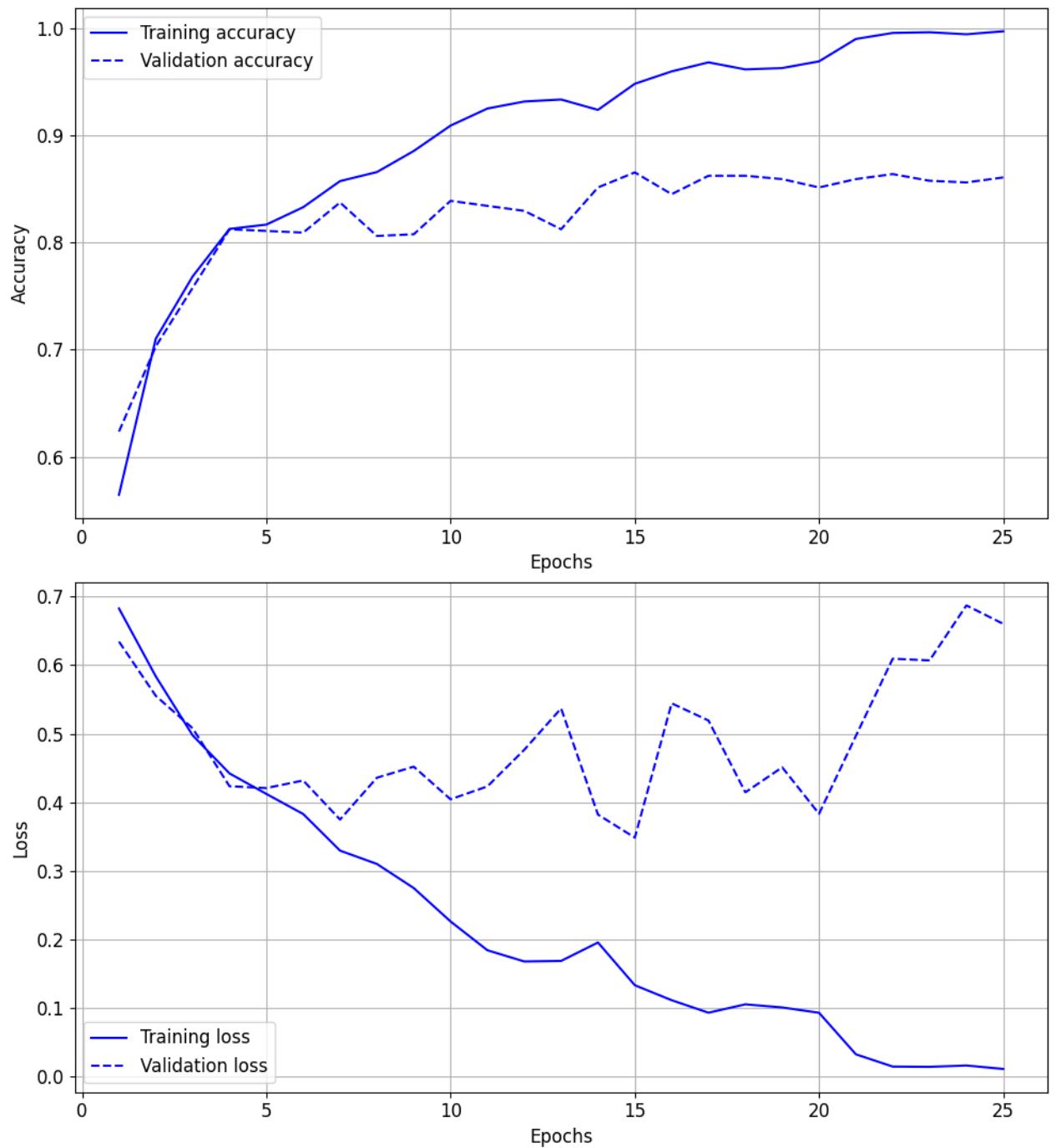
Trainable params: 2,752,130 (10.50 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,504,262 (21.00 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8914	0.8952	0.8933	477
muffin	0.8792	0.8750	0.8771	416
micro avg	0.8858	0.8858	0.8858	893
macro avg	0.8853	0.8851	0.8852	893
weighted avg	0.8858	0.8858	0.8858	893
samples avg	0.8858	0.8858	0.8858	893

trial_16

- *Start Time:* 2024-10-20 11:45:05
- *Duration:* 22.981
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	5
units2	64
kernel_size2	5
dense_units	512
dropout_rate	0.4354897051769737
learning_rate	0.00036409835704126833

Evaluation Metrics:

	train	val	test
accuracy	0.9872	0.8703	0.8858
precision	0.9872	0.8703	0.8858
recall	0.9872	0.8703	0.8858
f1	0.9872	0.8703	0.8858

Figures:

Model Summary

Model: "sequential"

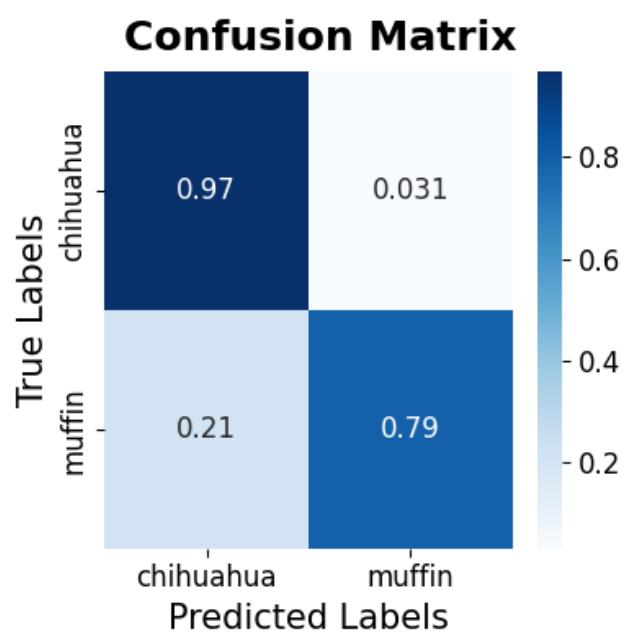
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 64)	4,864
max_pooling2d (MaxPooling2D)	(None, 62, 62, 64)	0
conv2d_1 (Conv2D)	(None, 58, 58, 64)	102,464
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 512)	4,719,104
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 15,577,736 (59.42 MB)

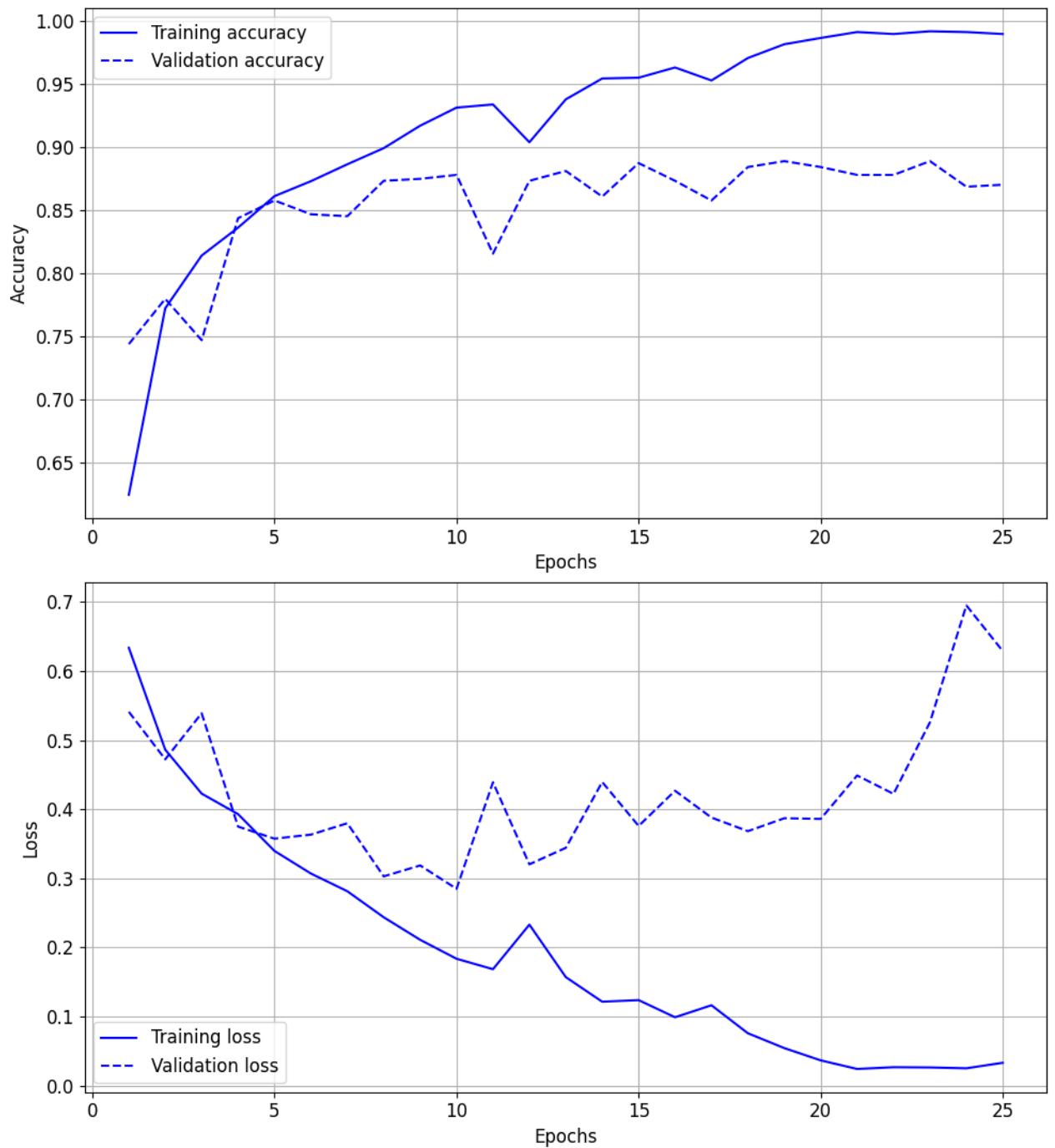
Trainable params: 5,192,578 (19.81 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 10,385,158 (39.62 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8415	0.9686	0.9006	477
muffin	0.9564	0.7909	0.8658	416
micro avg	0.8858	0.8858	0.8858	893
macro avg	0.8990	0.8797	0.8832	893
weighted avg	0.8950	0.8858	0.8844	893
samples avg	0.8858	0.8858	0.8858	893

trial_26

- *Start Time:* 2024-10-20 11:49:11
- *Duration:* 26.168
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	5
units2	64
kernel_size2	3
dense_units	128
dropout_rate	0.11776526252462811
learning_rate	5.079774681443778e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9356	0.8984	0.8858
precision	0.9356	0.8984	0.8858
recall	0.9356	0.8984	0.8858
f1	0.9356	0.8984	0.8858

Figures:

Model Summary

Model: "sequential"

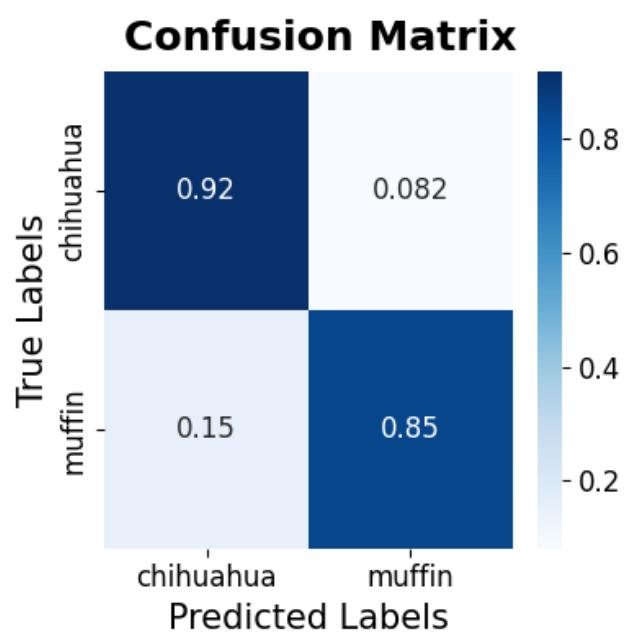
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 128)	9,728
max_pooling2d (MaxPooling2D)	(None, 62, 62, 128)	0
conv2d_1 (Conv2D)	(None, 60, 60, 64)	73,792
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 64)	0
conv2d_2 (Conv2D)	(None, 28, 28, 64)	36,928
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 64)	0
flatten (Flatten)	(None, 12544)	0
dense (Dense)	(None, 128)	1,605,760
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 5,228,936 (19.95 MB)

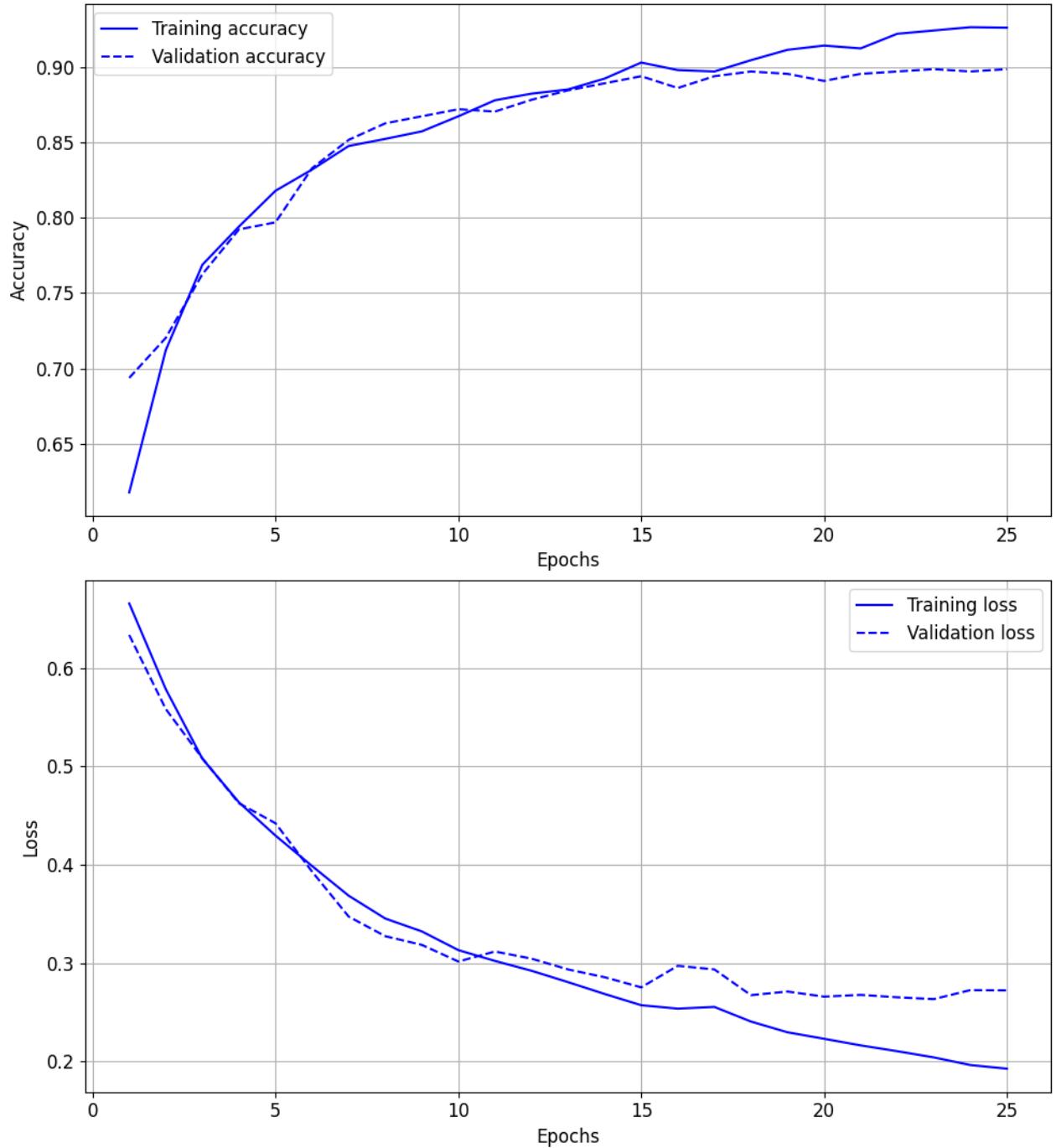
Trainable params: 1,742,978 (6.65 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,485,958 (13.30 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8743	0.9182	0.8957	477
muffin	0.9005	0.8486	0.8738	416
micro avg	0.8858	0.8858	0.8858	893
macro avg	0.8874	0.8834	0.8847	893
weighted avg	0.8865	0.8858	0.8855	893
samples avg	0.8858	0.8858	0.8858	893

trial_34

- *Start Time:* 2024-10-20 11:52:49
- *Duration:* 29.541
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	128
dropout_rate	0.14195976501675875
learning_rate	0.0001229566857371417

Evaluation Metrics:

	train	val	test
accuracy	0.9425	0.8766	0.8847
precision	0.9425	0.8766	0.8847
recall	0.9425	0.8766	0.8847
f1	0.9425	0.8766	0.8847

Figures:

Model Summary

Model: "sequential"

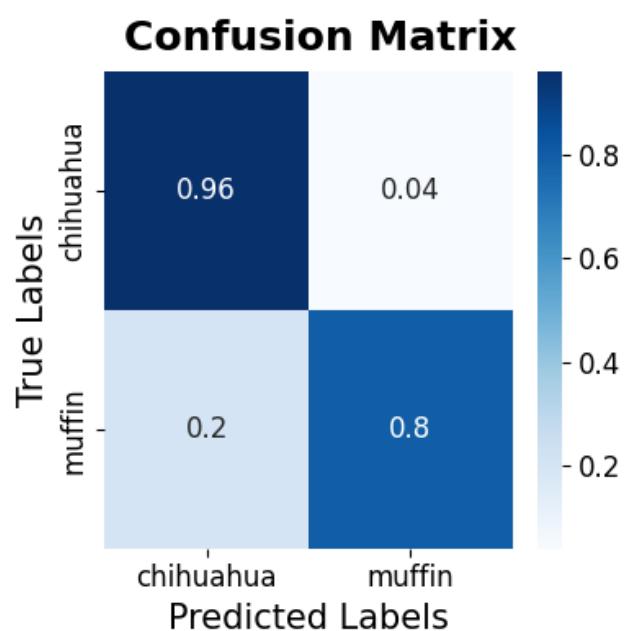
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1,179,776
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,522,376 (17.25 MB)

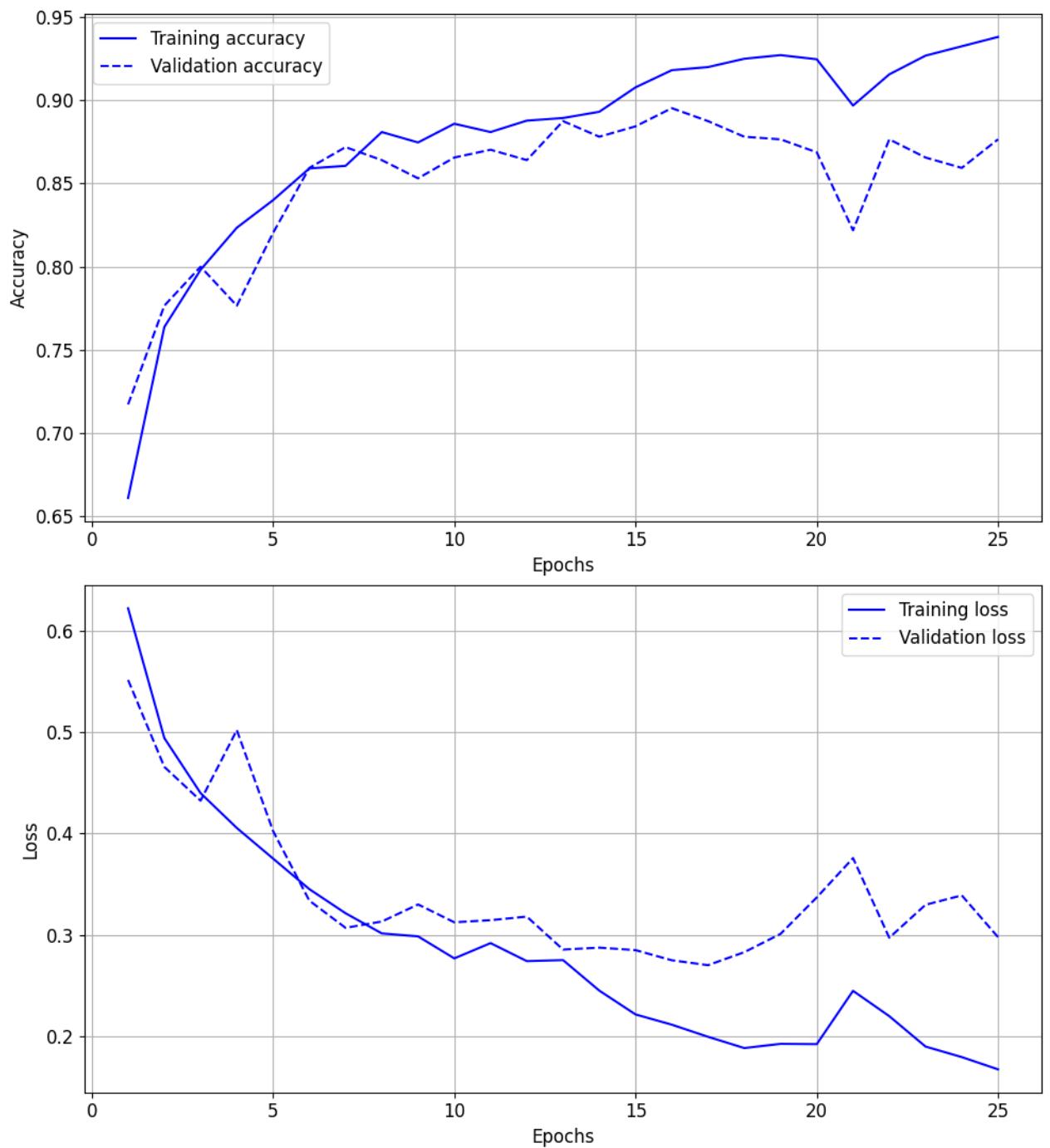
Trainable params: 1,507,458 (5.75 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,014,918 (11.50 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8450	0.9602	0.8989	477
muffin	0.9459	0.7981	0.8657	416
micro avg	0.8847	0.8847	0.8847	893
macro avg	0.8954	0.8791	0.8823	893
weighted avg	0.8920	0.8847	0.8834	893
samples avg	0.8847	0.8847	0.8847	893

trial_40

- *Start Time:* 2024-10-20 11:56:03
- *Duration:* 30.374
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	5
units2	32
kernel_size2	5
dense_units	512
dropout_rate	0.18583592219170775
learning_rate	9.666660986054943e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9556	0.8906	0.8847
precision	0.9556	0.8906	0.8847
recall	0.9556	0.8906	0.8847
f1	0.9556	0.8906	0.8847

Figures:

Model Summary

Model: "sequential"

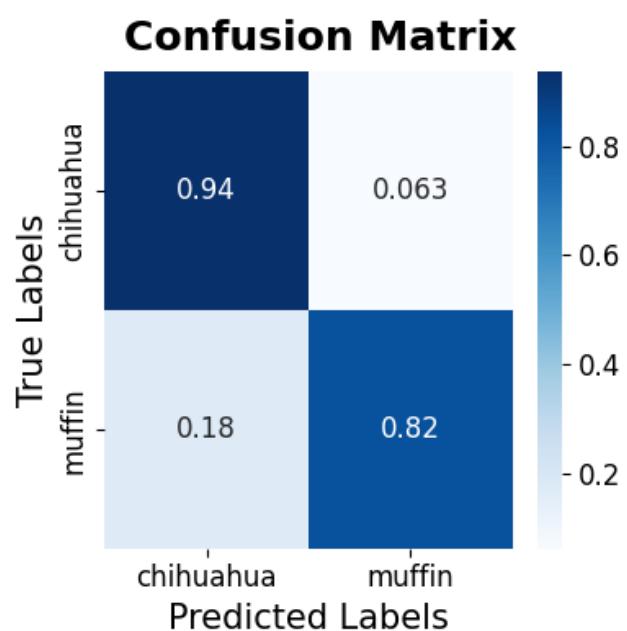
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 128)	9,728
max_pooling2d (MaxPooling2D)	(None, 62, 62, 128)	0
conv2d_1 (Conv2D)	(None, 58, 58, 32)	102,432
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 32)	0
conv2d_2 (Conv2D)	(None, 25, 25, 32)	25,632
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 32)	0
flatten (Flatten)	(None, 4608)	0
dense (Dense)	(None, 512)	2,359,808
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 8,283,848 (31.60 MB)

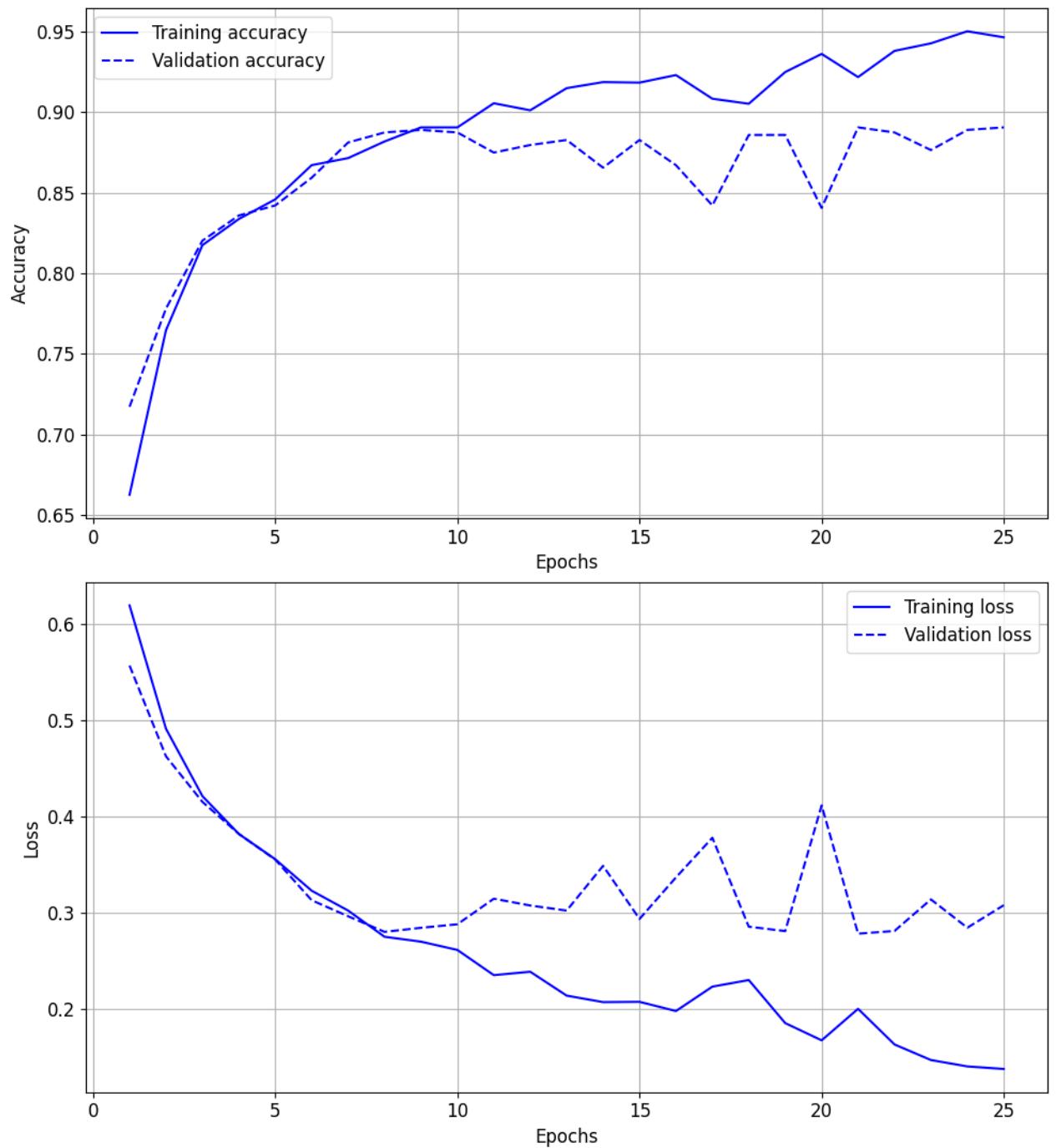
Trainable params: 2,761,282 (10.53 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,522,566 (21.07 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8596	0.9371	0.8967	477
muffin	0.9196	0.8245	0.8695	416
micro avg	0.8847	0.8847	0.8847	893
macro avg	0.8896	0.8808	0.8831	893
weighted avg	0.8875	0.8847	0.8840	893
samples avg	0.8847	0.8847	0.8847	893

trial_48

- *Start Time:* 2024-10-20 12:00:27
- *Duration:* 39.766
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	5
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.160481532820655
learning_rate	8.162775971676084e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9262	0.8734	0.8847
precision	0.9262	0.8734	0.8847
recall	0.9262	0.8734	0.8847
f1	0.9262	0.8734	0.8847

Figures:

Model Summary

Model: "sequential"

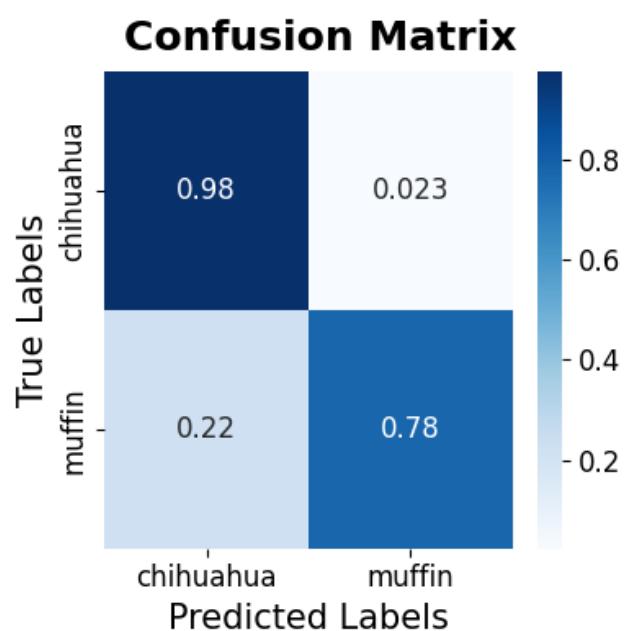
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 128)	9,728
max_pooling2d (MaxPooling2D)	(None, 62, 62, 128)	0
conv2d_1 (Conv2D)	(None, 56, 56, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,982,984 (30.45 MB)

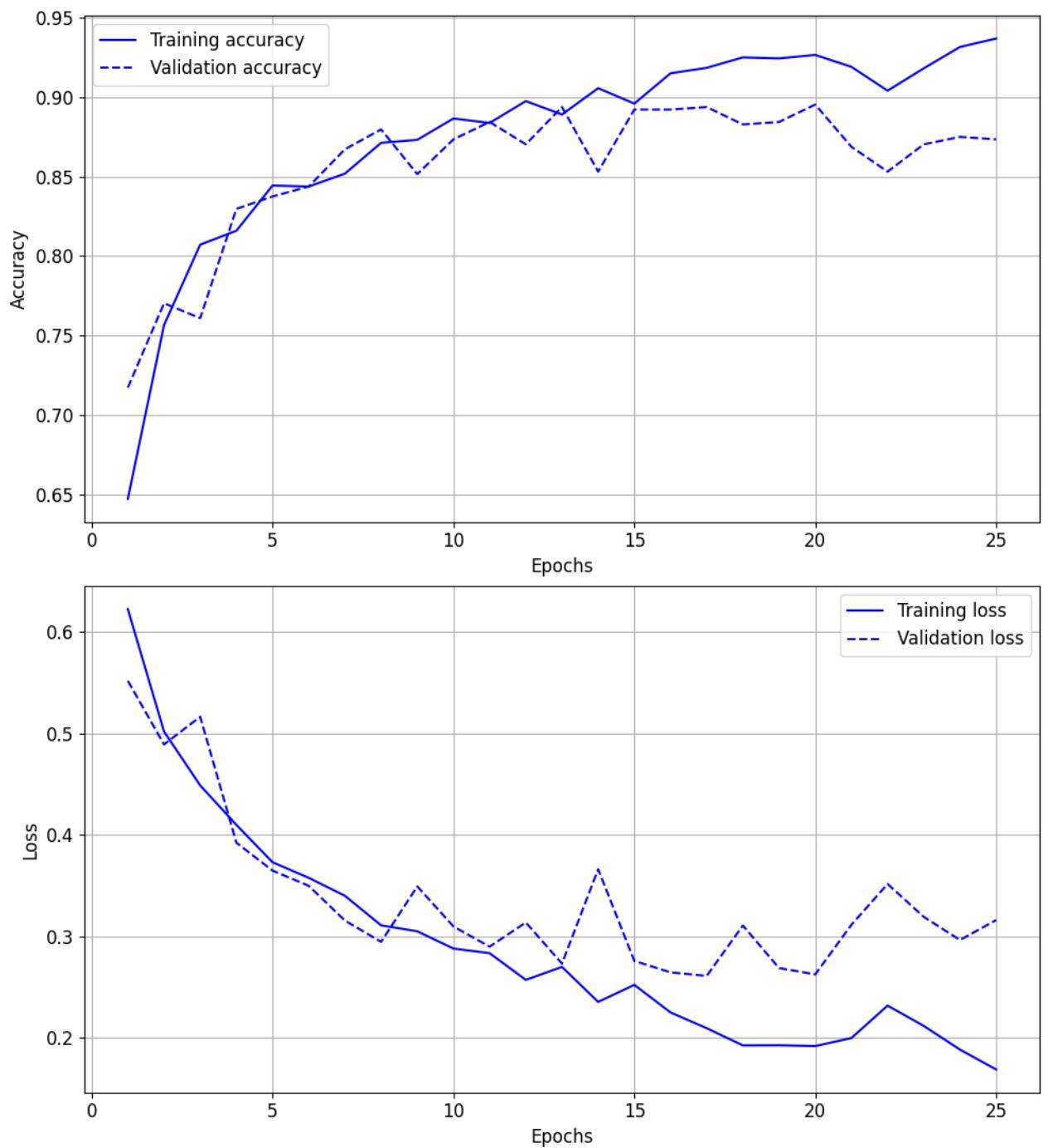
Trainable params: 2,660,994 (10.15 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,321,990 (20.30 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8351	0.9769	0.9005	477
muffin	0.9672	0.7788	0.8628	416
micro avg	0.8847	0.8847	0.8847	893
macro avg	0.9011	0.8779	0.8817	893
weighted avg	0.8966	0.8847	0.8830	893
samples avg	0.8847	0.8847	0.8847	893

trial_63

- *Start Time:* 2024-10-20 12:09:04
- *Duration:* 29.342
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	128
dropout_rate	0.12944573319261857
learning_rate	8.264027939545117e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9281	0.8875	0.8847
precision	0.9281	0.8875	0.8847
recall	0.9281	0.8875	0.8847
f1	0.9281	0.8875	0.8847

Figures:

Model Summary

Model: "sequential"

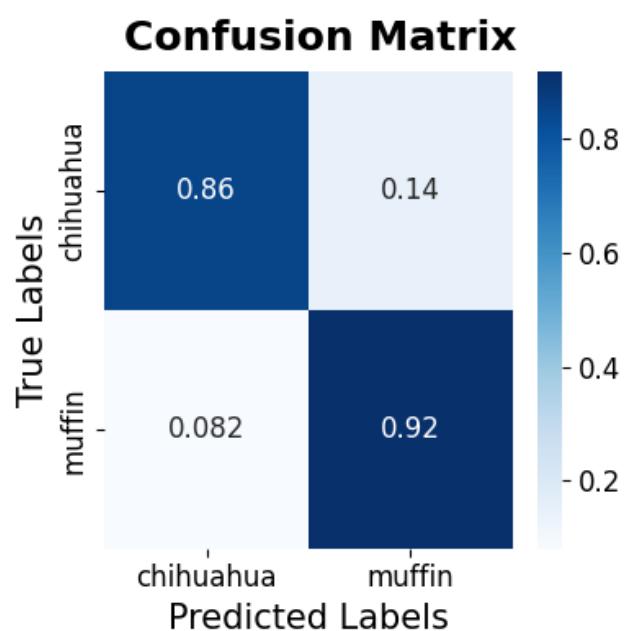
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1,179,776
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,522,376 (17.25 MB)

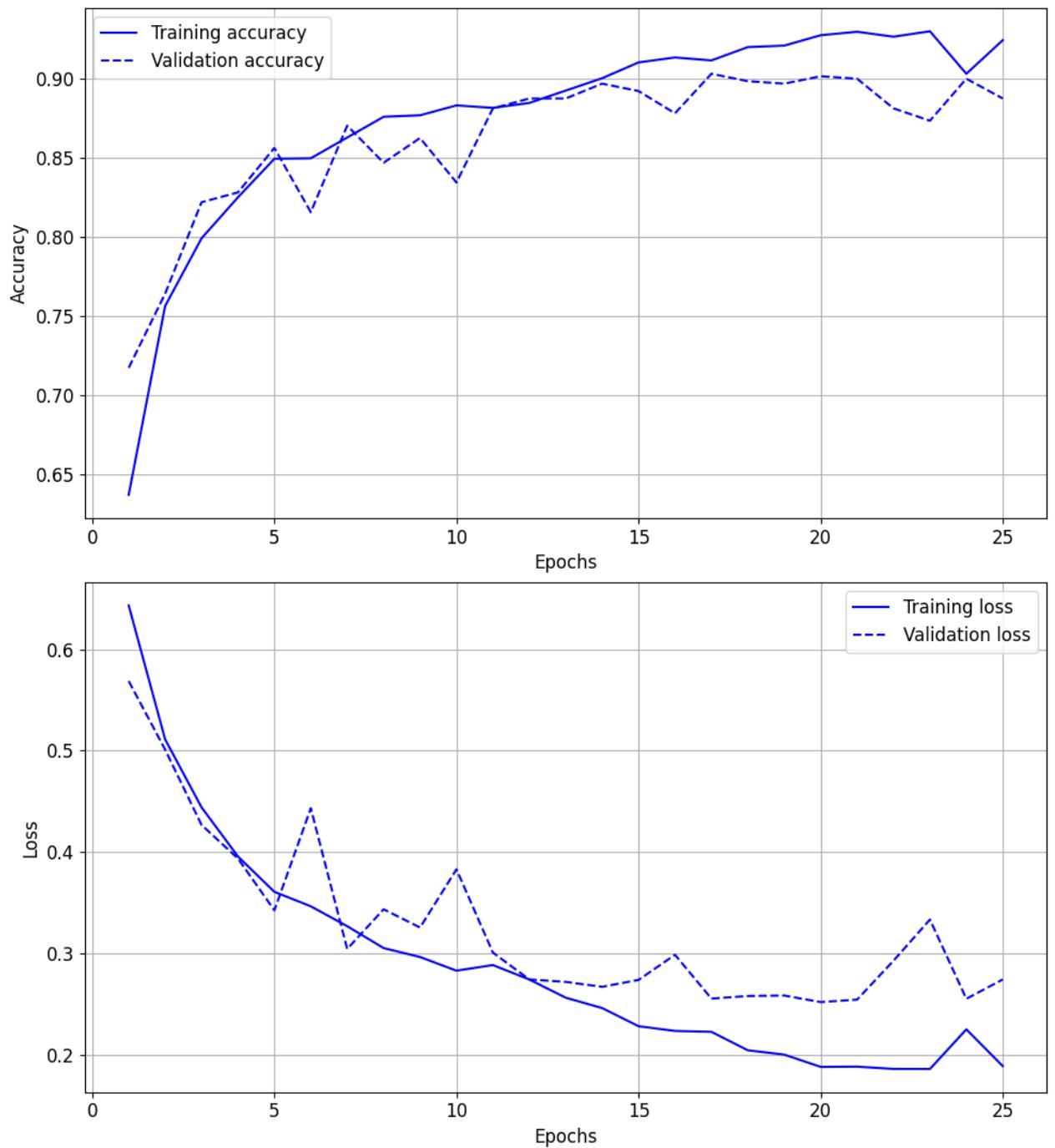
Trainable params: 1,507,458 (5.75 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,014,918 (11.50 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9231	0.8553	0.8879	477
muffin	0.8470	0.9183	0.8812	416
micro avg	0.8847	0.8847	0.8847	893
macro avg	0.8850	0.8868	0.8846	893
weighted avg	0.8876	0.8847	0.8848	893
samples avg	0.8847	0.8847	0.8847	893

trial_70

- *Start Time:* 2024-10-20 12:12:43
- *Duration:* 29.473
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	128
dropout_rate	0.09280609924700182
learning_rate	0.00012934502867174283

Evaluation Metrics:

	train	val	test
accuracy	0.9187	0.8703	0.8847
precision	0.9187	0.8703	0.8847
recall	0.9187	0.8703	0.8847
f1	0.9187	0.8703	0.8847

Figures:

Model Summary

Model: "sequential"

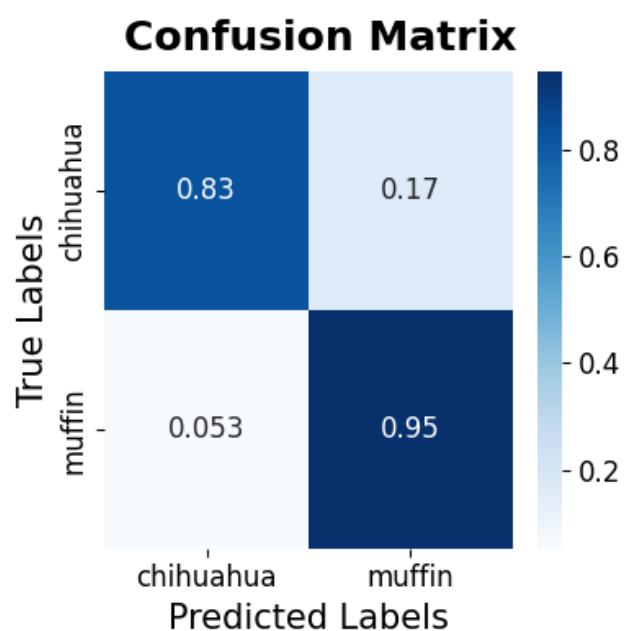
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1,179,776
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,522,376 (17.25 MB)

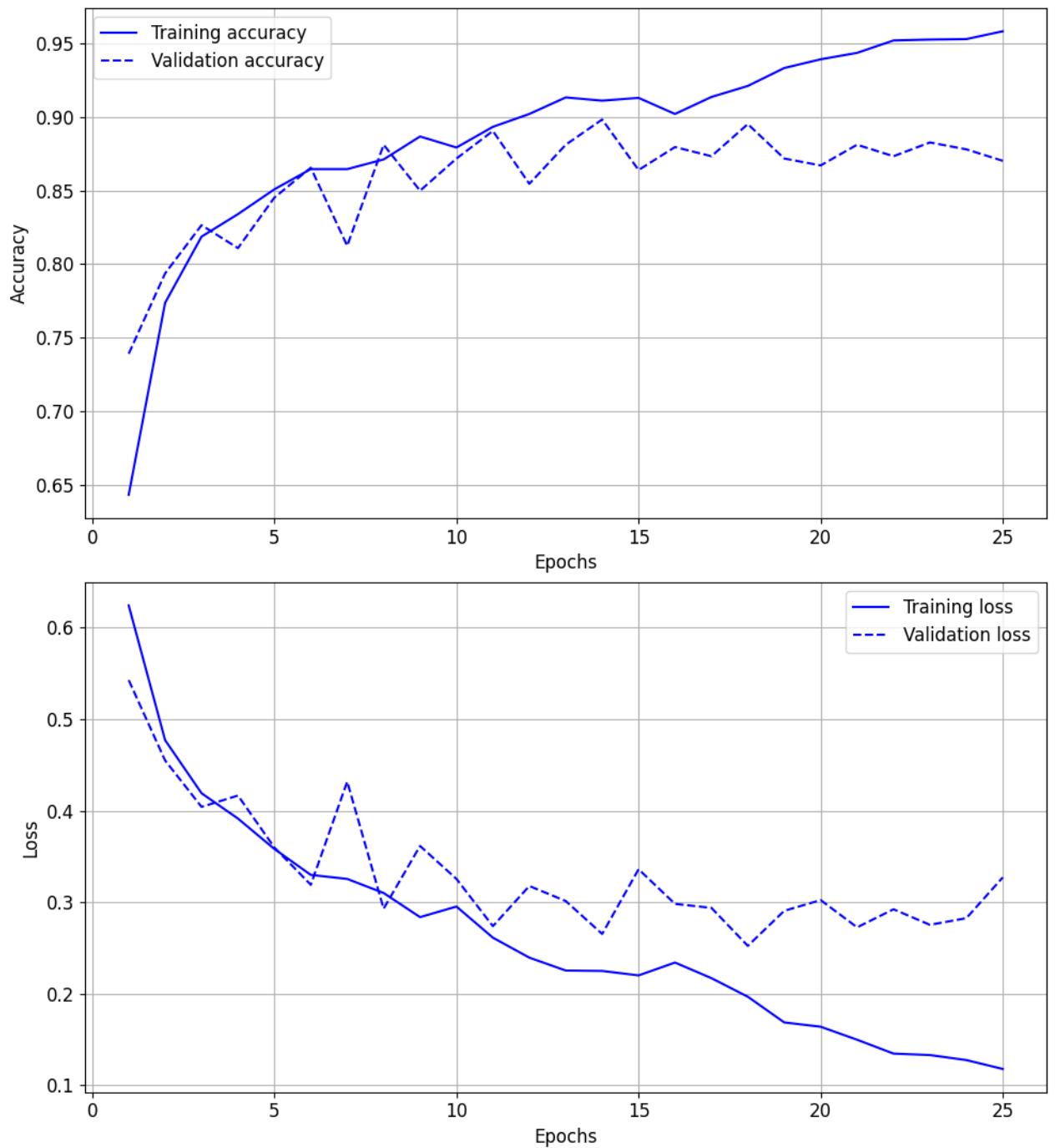
Trainable params: 1,507,458 (5.75 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,014,918 (11.50 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9474	0.8302	0.8849	477
muffin	0.8295	0.9471	0.8844	416
micro avg	0.8847	0.8847	0.8847	893
macro avg	0.8884	0.8887	0.8847	893
weighted avg	0.8924	0.8847	0.8847	893
samples avg	0.8847	0.8847	0.8847	893

trial_77

- *Start Time:* 2024-10-20 12:15:44
- *Duration:* 33.719
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	5
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.18328177429112325
learning_rate	0.00014985002774766163

Evaluation Metrics:

	train	val	test
accuracy	0.9831	0.8953	0.8847
precision	0.9831	0.8953	0.8847
recall	0.9831	0.8953	0.8847
f1	0.9831	0.8953	0.8847

Figures:

Model Summary

Model: "sequential"

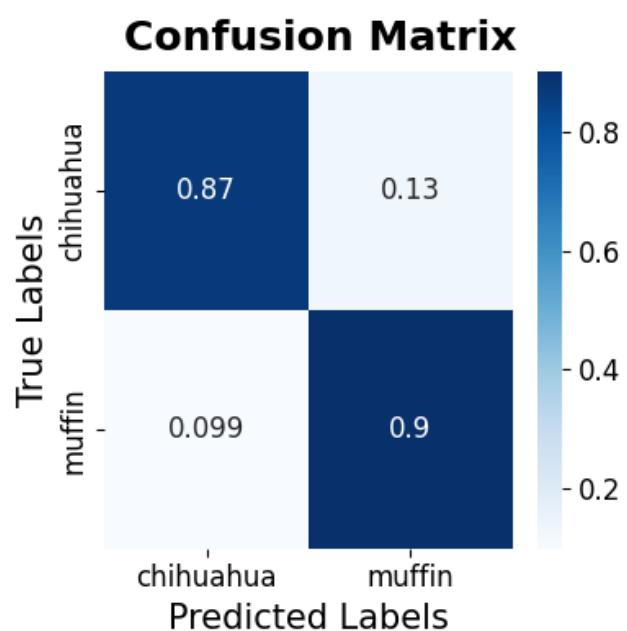
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 128)	9,728
max_pooling2d (MaxPooling2D)	(None, 62, 62, 128)	0
conv2d_1 (Conv2D)	(None, 56, 56, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,982,984 (30.45 MB)

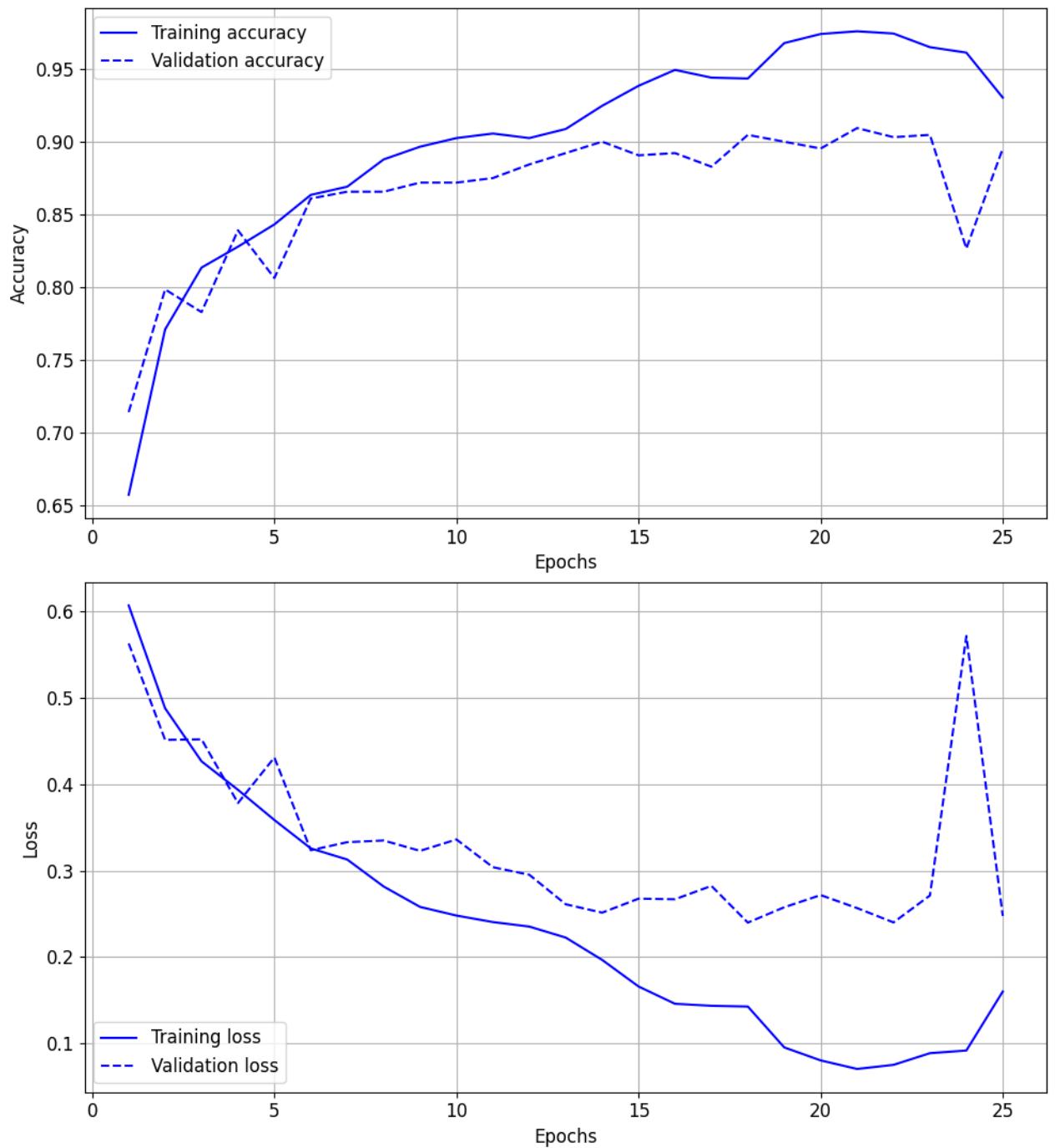
Trainable params: 2,660,994 (10.15 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,321,990 (20.30 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9101	0.8700	0.8896	477
muffin	0.8581	0.9014	0.8792	416
micro avg	0.8847	0.8847	0.8847	893
macro avg	0.8841	0.8857	0.8844	893
weighted avg	0.8859	0.8847	0.8848	893
samples avg	0.8847	0.8847	0.8847	893

trial_100

- *Start Time:* 2024-10-20 12:28:37
- *Duration:* 32.981
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.25391158871049163
learning_rate	6.385911168784833e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9219	0.9000	0.8847
precision	0.9219	0.9000	0.8847
recall	0.9219	0.9000	0.8847
f1	0.9219	0.9000	0.8847

Figures:

Model Summary

Model: "sequential"

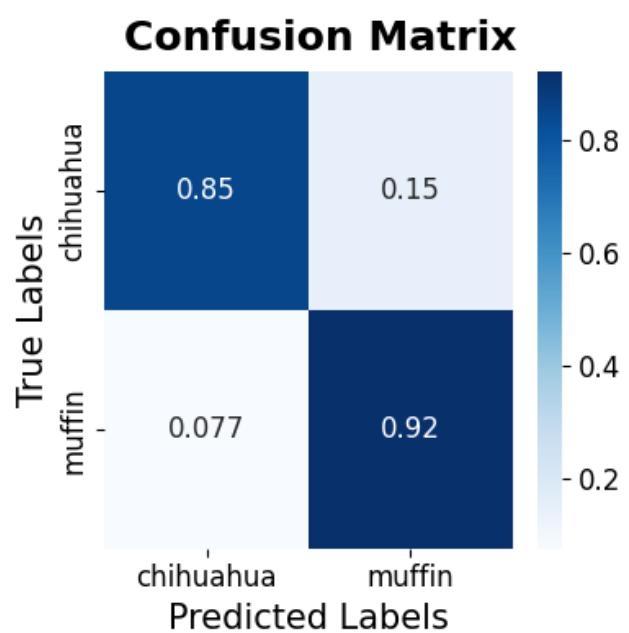
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

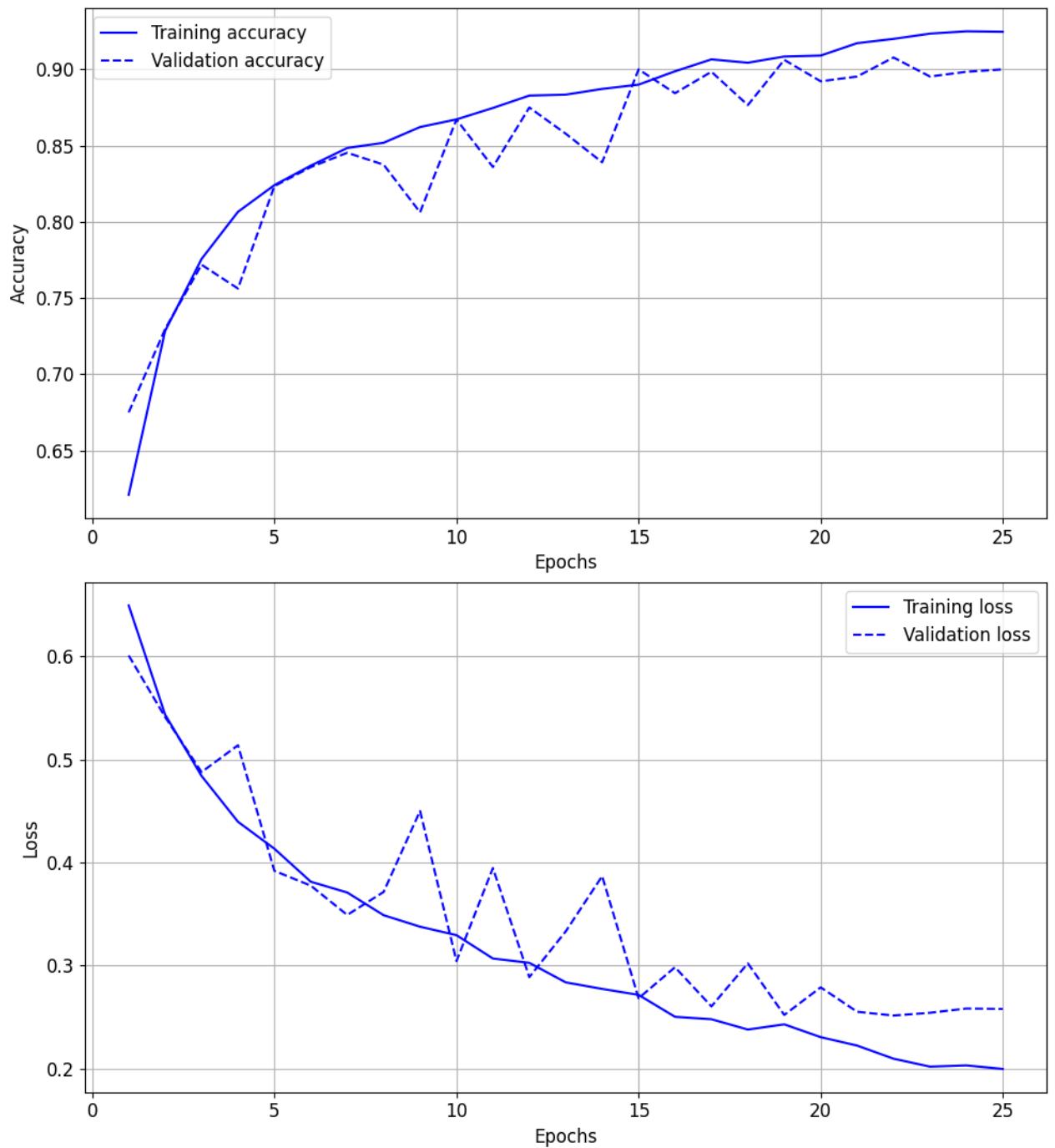
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9269	0.8512	0.8874	477
muffin	0.8440	0.9231	0.8817	416
micro avg	0.8847	0.8847	0.8847	893
macro avg	0.8854	0.8871	0.8846	893
weighted avg	0.8883	0.8847	0.8848	893
samples avg	0.8847	0.8847	0.8847	893

trial_36

- *Start Time:* 2024-10-20 11:53:59
- *Duration:* 29.378
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	128
dropout_rate	0.14458008572699238
learning_rate	0.00011419141288334819

Evaluation Metrics:

	train	val	test
accuracy	0.9344	0.8781	0.8835
precision	0.9344	0.8781	0.8835
recall	0.9344	0.8781	0.8835
f1	0.9344	0.8781	0.8835

Figures:

Model Summary

Model: "sequential"

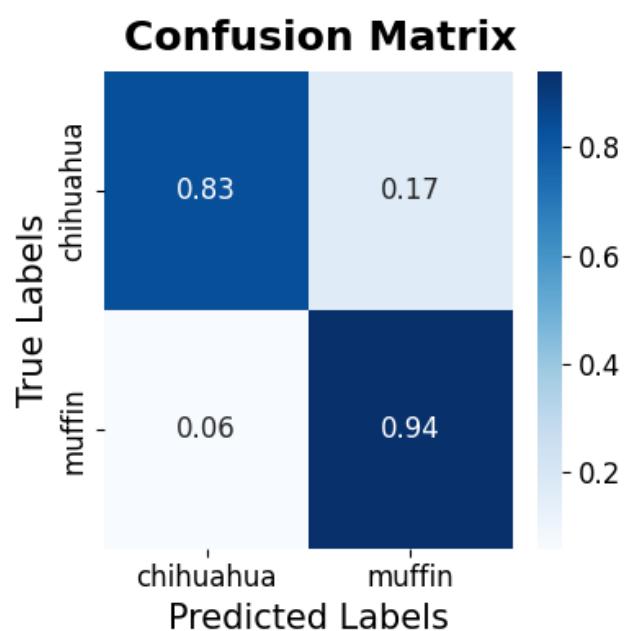
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1,179,776
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,522,376 (17.25 MB)

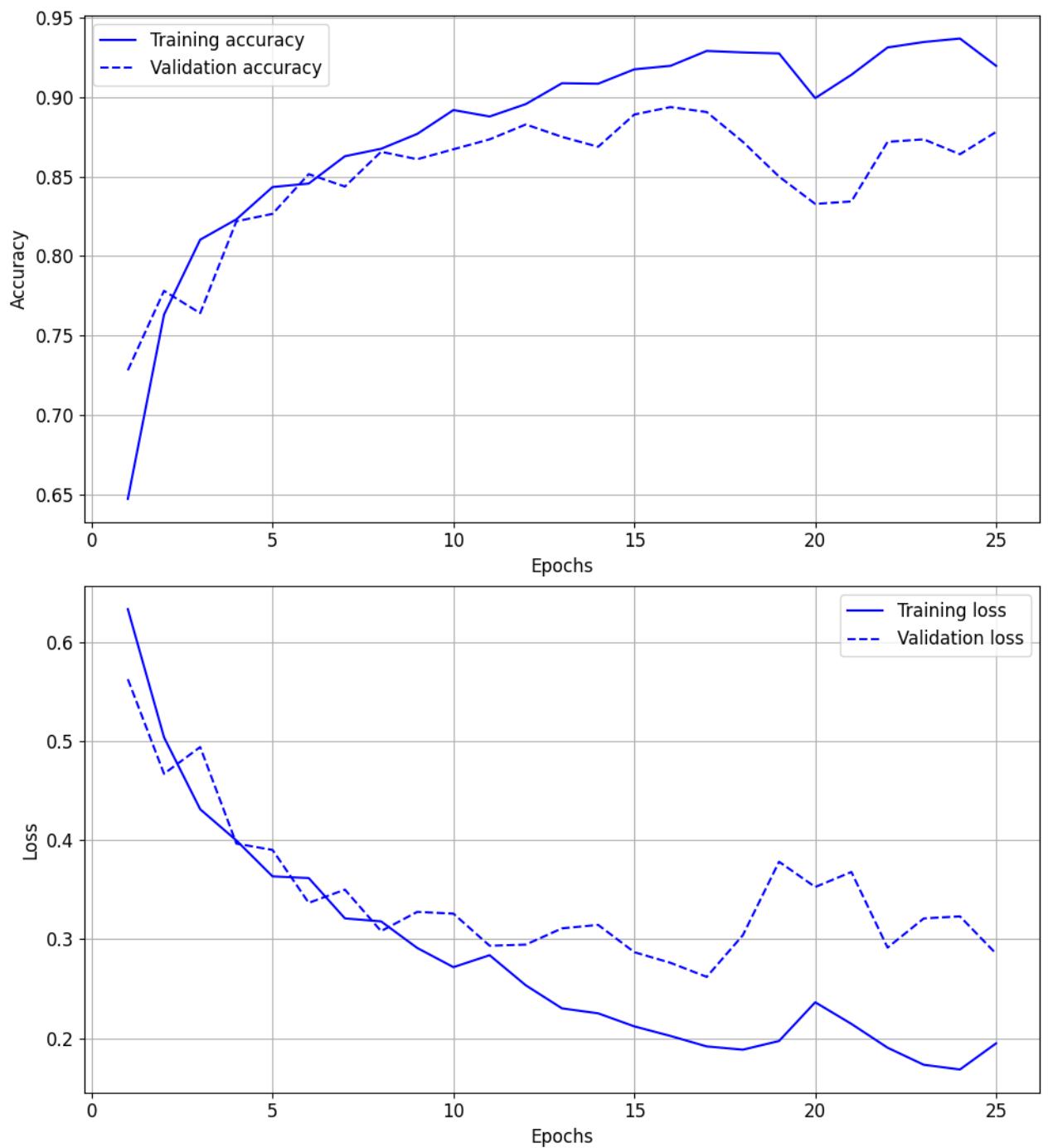
Trainable params: 1,507,458 (5.75 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,014,918 (11.50 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9409	0.8344	0.8844	477
muffin	0.8319	0.9399	0.8826	416
micro avg	0.8835	0.8835	0.8835	893
macro avg	0.8864	0.8871	0.8835	893
weighted avg	0.8901	0.8835	0.8836	893
samples avg	0.8835	0.8835	0.8835	893

trial_39

- *Start Time:* 2024-10-20 11:55:33
- *Duration:* 29.516
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	128
dropout_rate	0.1308924960756423
learning_rate	2.6853967202620856e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8947	0.8719	0.8835
precision	0.8947	0.8719	0.8835
recall	0.8947	0.8719	0.8835
f1	0.8947	0.8719	0.8835

Figures:

Model Summary

Model: "sequential"

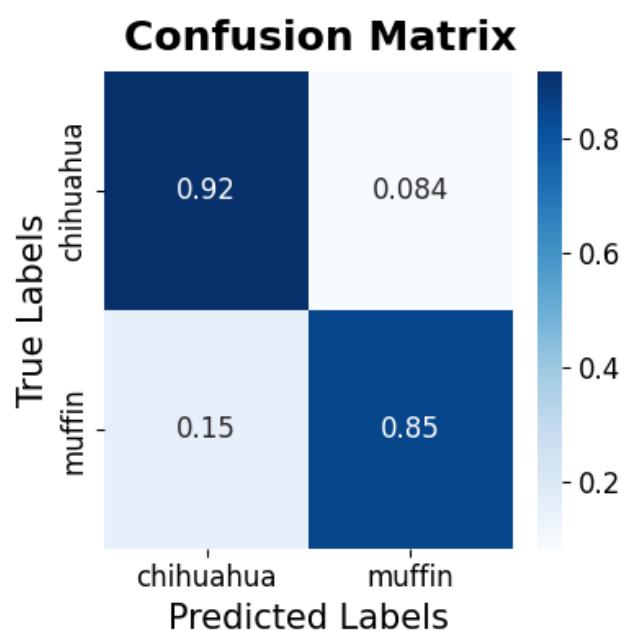
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1,179,776
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,522,376 (17.25 MB)

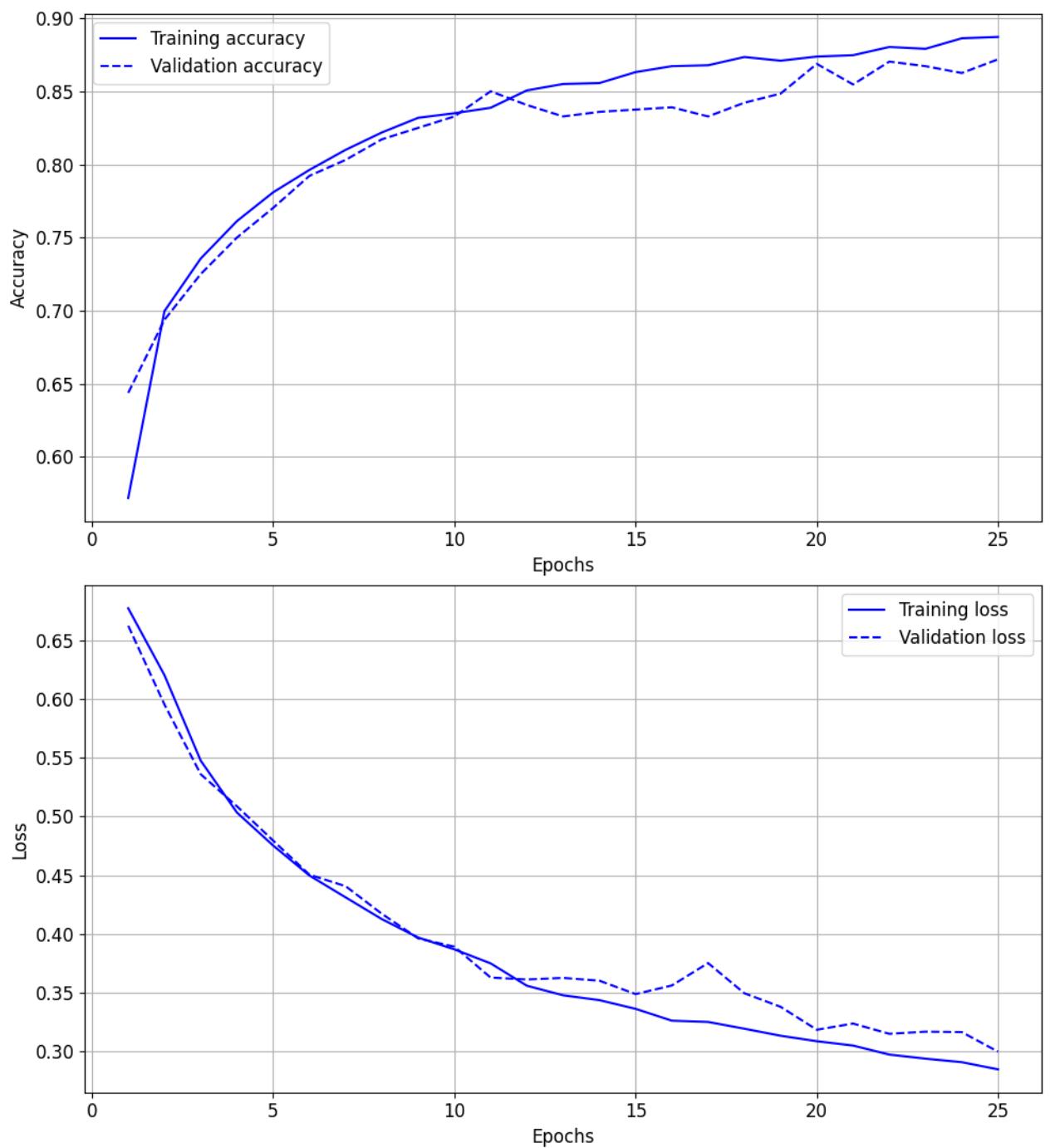
Trainable params: 1,507,458 (5.75 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,014,918 (11.50 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8723	0.9161	0.8937	477
muffin	0.8980	0.8462	0.8713	416
micro avg	0.8835	0.8835	0.8835	893
macro avg	0.8851	0.8811	0.8825	893
weighted avg	0.8842	0.8835	0.8832	893
samples avg	0.8835	0.8835	0.8835	893

trial_18

- *Start Time:* 2024-10-20 11:45:51
- *Duration:* 25.290
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	32
kernel_size2	3
dense_units	512
dropout_rate	0.015504366887637178
learning_rate	1.94910093480993e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9069	0.8875	0.8824
precision	0.9069	0.8875	0.8824
recall	0.9069	0.8875	0.8824
f1	0.9069	0.8875	0.8824

Figures:

Model Summary

Model: "sequential"

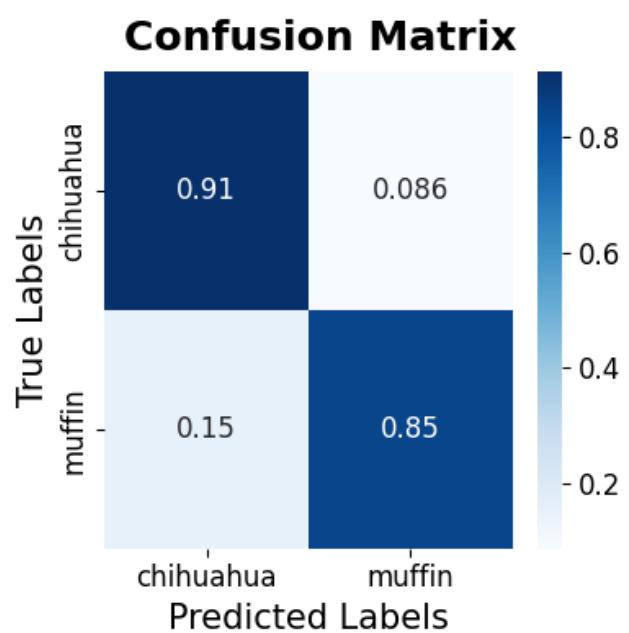
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 61, 61, 32)	36,896
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 32)	0
conv2d_2 (Conv2D)	(None, 28, 28, 32)	9,248
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 32)	0
flatten (Flatten)	(None, 6272)	0
dense (Dense)	(None, 512)	3,211,776
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 10,575,560 (40.34 MB)

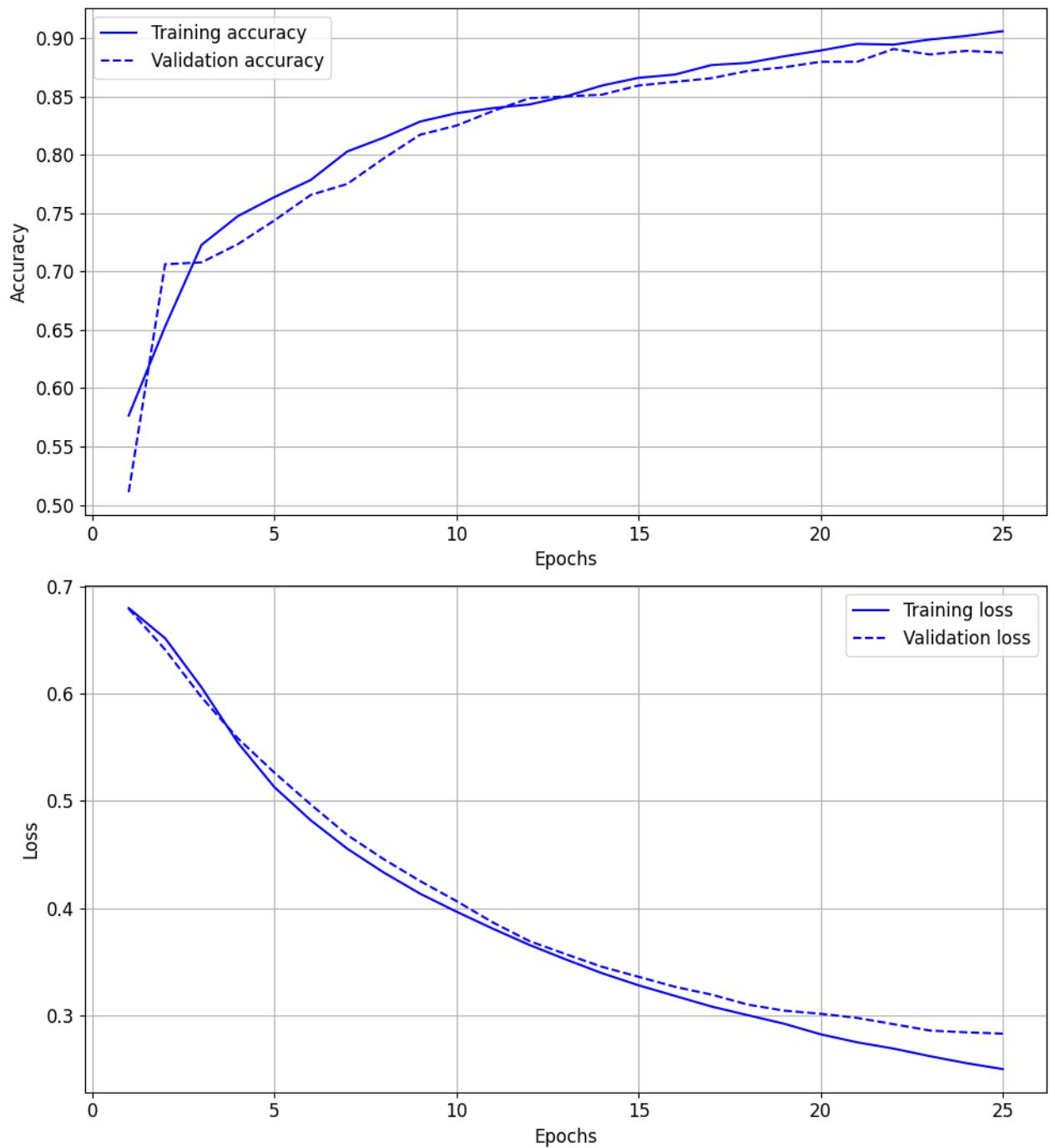
Trainable params: 3,525,186 (13.45 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 7,050,374 (26.90 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8720	0.9140	0.8925	477
muffin	0.8957	0.8462	0.8702	416
micro avg	0.8824	0.8824	0.8824	893
macro avg	0.8838	0.8801	0.8814	893
weighted avg	0.8830	0.8824	0.8821	893
samples avg	0.8824	0.8824	0.8824	893

trial_23

- *Start Time:* 2024-10-20 11:47:53
- *Duration:* 25.697
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	3
dense_units	512
dropout_rate	0.06148611590847644
learning_rate	1.643973209954612e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9166	0.8828	0.8813
precision	0.9166	0.8828	0.8813
recall	0.9166	0.8828	0.8813
f1	0.9166	0.8828	0.8813

Figures:

Model Summary

Model: "sequential"

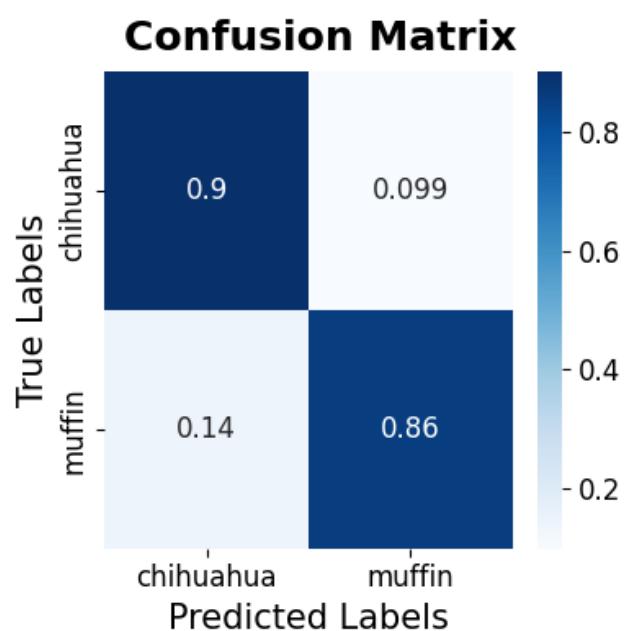
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 61, 61, 64)	73,792
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 64)	0
conv2d_2 (Conv2D)	(None, 28, 28, 64)	36,928
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 64)	0
flatten (Flatten)	(None, 12544)	0
dense (Dense)	(None, 512)	6,423,040
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 20,403,080 (77.83 MB)

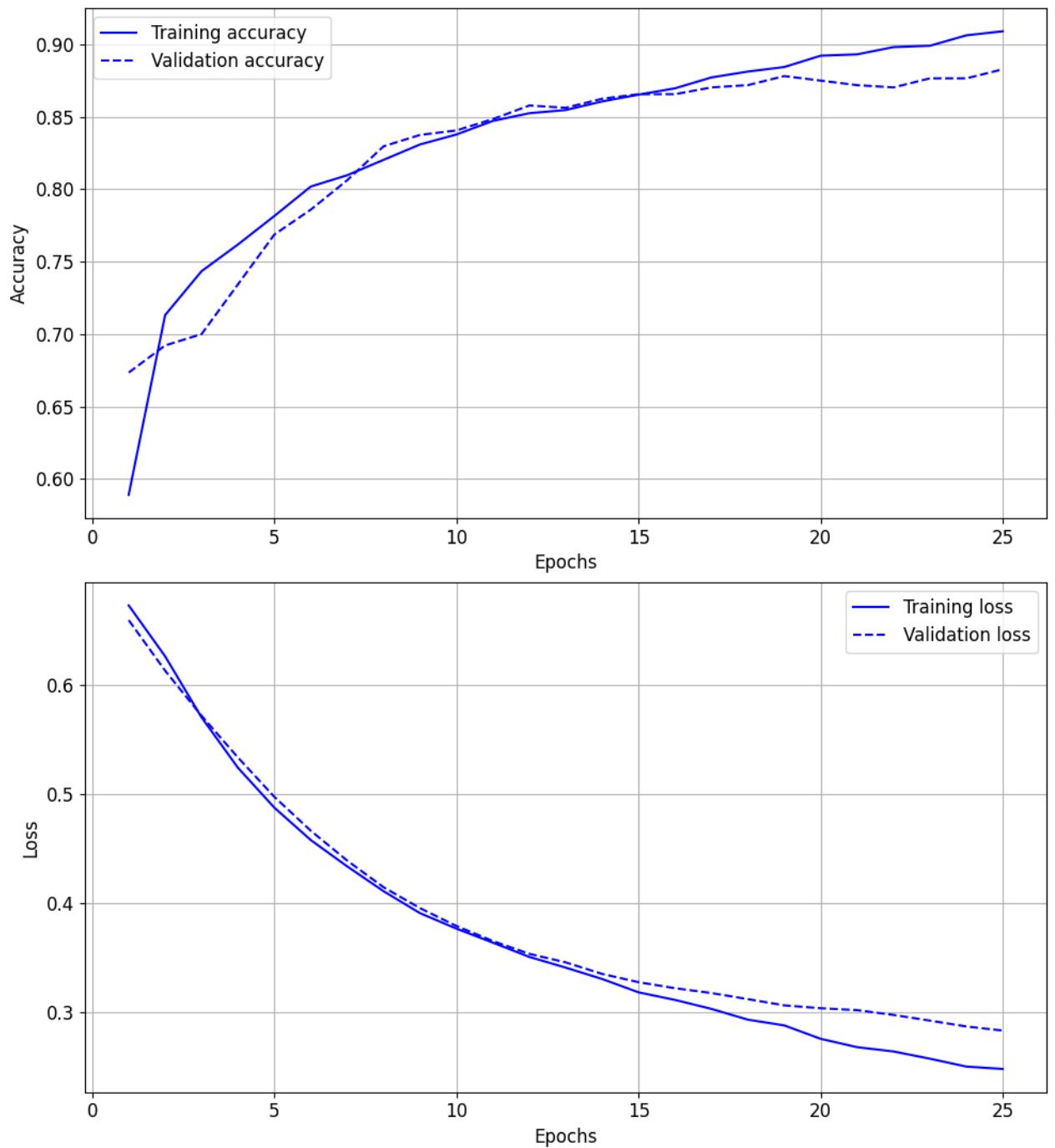
Trainable params: 6,801,026 (25.94 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 13,602,054 (51.89 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8793	0.9015	0.8903	477
muffin	0.8837	0.8582	0.8707	416
micro avg	0.8813	0.8813	0.8813	893
macro avg	0.8815	0.8798	0.8805	893
weighted avg	0.8814	0.8813	0.8812	893
samples avg	0.8813	0.8813	0.8813	893

trial_15

- *Start Time:* 2024-10-20 11:44:41
- *Duration:* 23.635
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	7
units2	32
kernel_size2	7
dense_units	128
dropout_rate	0.3236004052702324
learning_rate	5.805332021270342e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8959	0.8719	0.8791
precision	0.8959	0.8719	0.8791
recall	0.8959	0.8719	0.8791
f1	0.8959	0.8719	0.8791

Figures:

Model Summary

Model: "sequential"

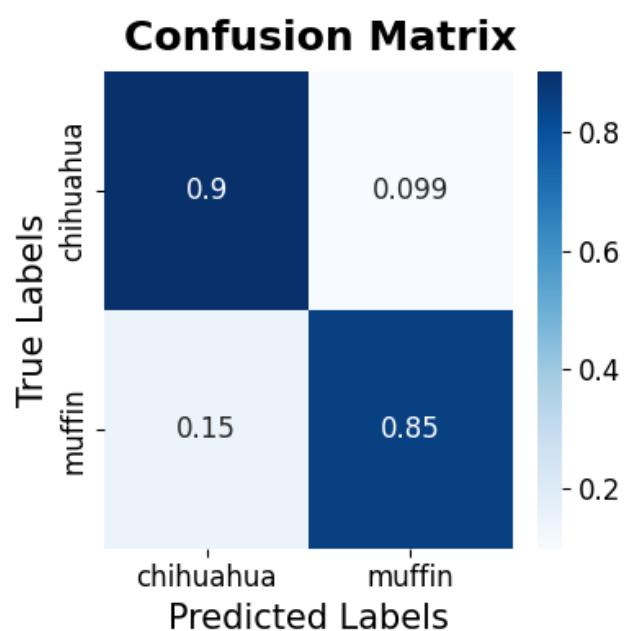
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 122, 122, 64)	9,472
max_pooling2d (MaxPooling2D)	(None, 61, 61, 64)	0
conv2d_1 (Conv2D)	(None, 55, 55, 32)	100,384
max_pooling2d_1 (MaxPooling2D)	(None, 27, 27, 32)	0
conv2d_2 (Conv2D)	(None, 21, 21, 32)	50,208
max_pooling2d_2 (MaxPooling2D)	(None, 10, 10, 32)	0
flatten (Flatten)	(None, 3200)	0
dense (Dense)	(None, 128)	409,728
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 1,759,688 (6.71 MB)

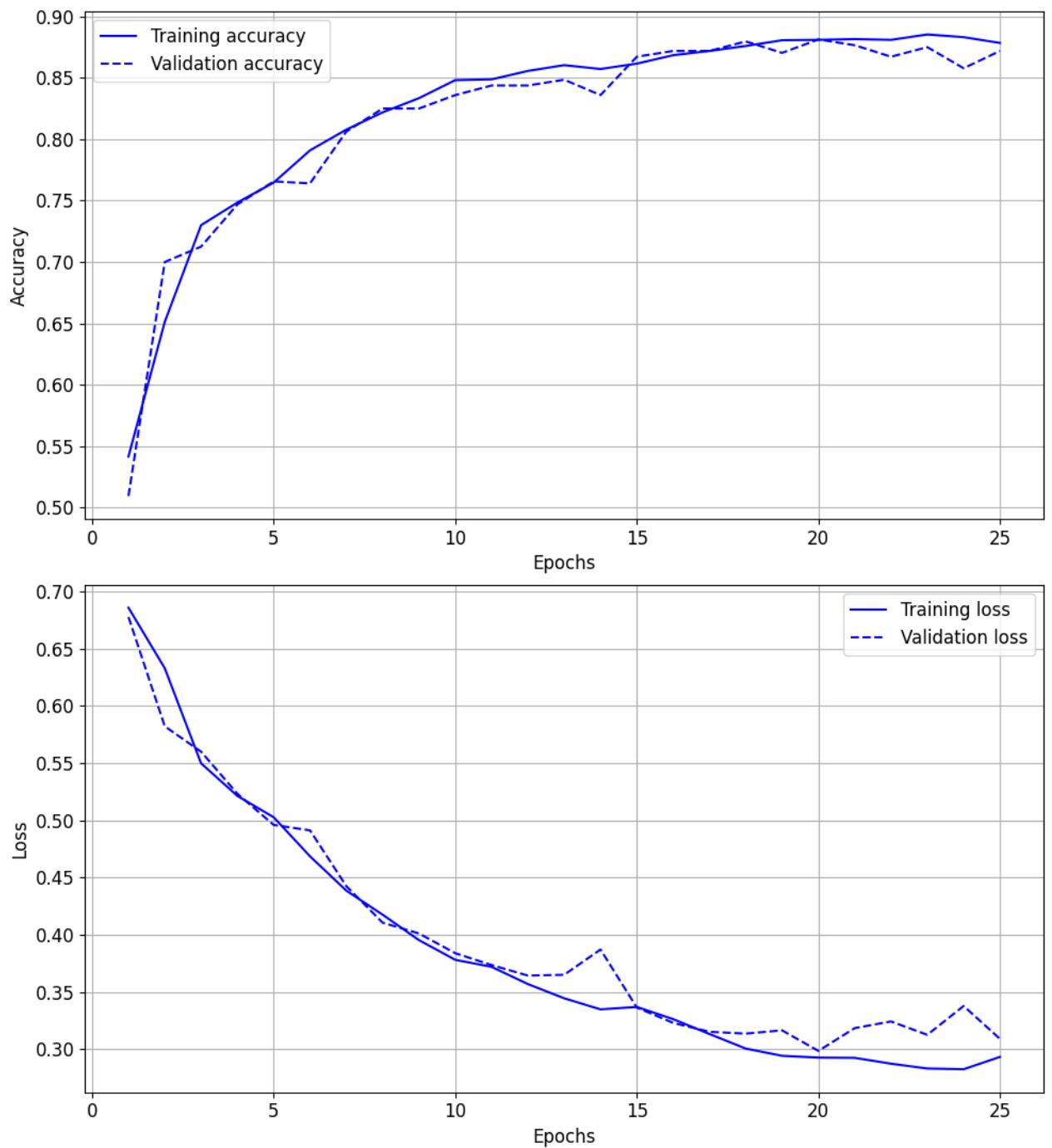
Trainable params: 586,562 (2.24 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 1,173,126 (4.48 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8758	0.9015	0.8884	477
muffin	0.8831	0.8534	0.8680	416
micro avg	0.8791	0.8791	0.8791	893
macro avg	0.8794	0.8774	0.8782	893
weighted avg	0.8792	0.8791	0.8789	893
samples avg	0.8791	0.8791	0.8791	893

trial_98

- *Start Time:* 2024-10-20 12:27:34
- *Duration:* 27.675
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	32
kernel_size2	7
dense_units	128
dropout_rate	0.23012775429620427
learning_rate	3.9507636445541945e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8903	0.8625	0.8779
precision	0.8903	0.8625	0.8779
recall	0.8903	0.8625	0.8779
f1	0.8903	0.8625	0.8779

Figures:

Model Summary

Model: "sequential"

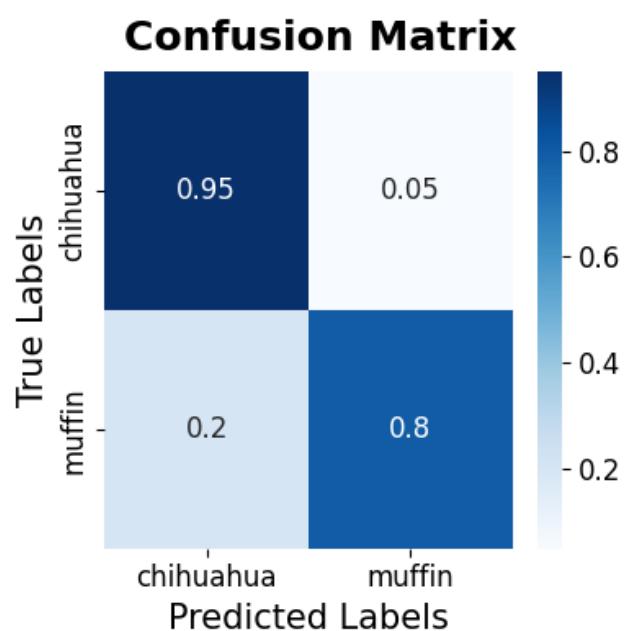
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 32)	200,736
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 32)	0
conv2d_2 (Conv2D)	(None, 22, 22, 32)	50,208
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 32)	0
flatten (Flatten)	(None, 3872)	0
dense (Dense)	(None, 128)	495,744
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 2,301,128 (8.78 MB)

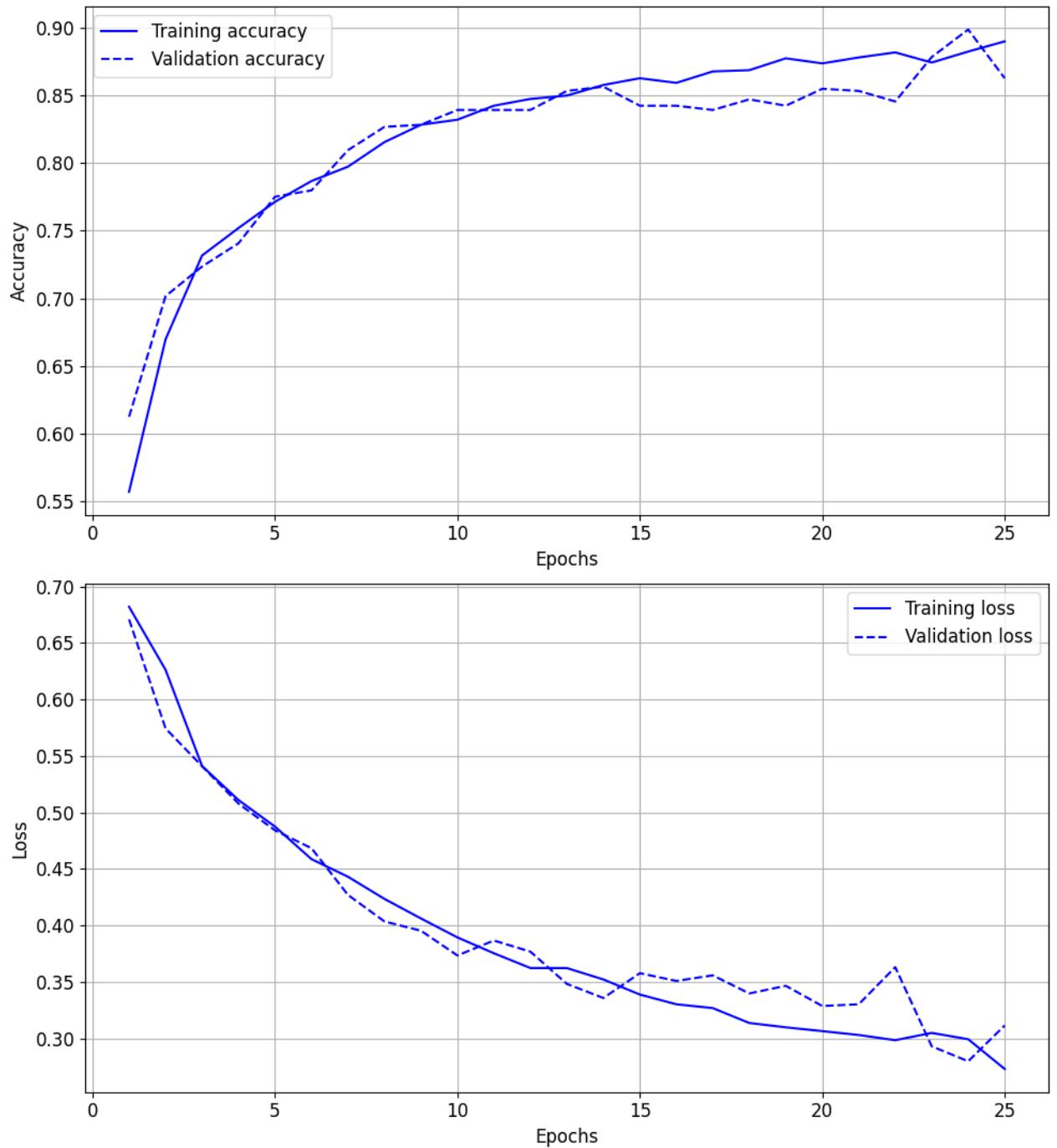
Trainable params: 767,042 (2.93 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 1,534,086 (5.85 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8420	0.9497	0.8926	477
muffin	0.9324	0.7957	0.8586	416
micro avg	0.8779	0.8779	0.8779	893
macro avg	0.8872	0.8727	0.8756	893
weighted avg	0.8841	0.8779	0.8768	893
samples avg	0.8779	0.8779	0.8779	893

trial_61

- *Start Time:* 2024-10-20 12:07:59
- *Duration:* 33.138
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.2917376188205809
learning_rate	0.00015021916323067566

Evaluation Metrics:

	train	val	test
accuracy	0.9481	0.8859	0.8768
precision	0.9481	0.8859	0.8768
recall	0.9481	0.8859	0.8768
f1	0.9481	0.8859	0.8768

Figures:

Model Summary

Model: "sequential"

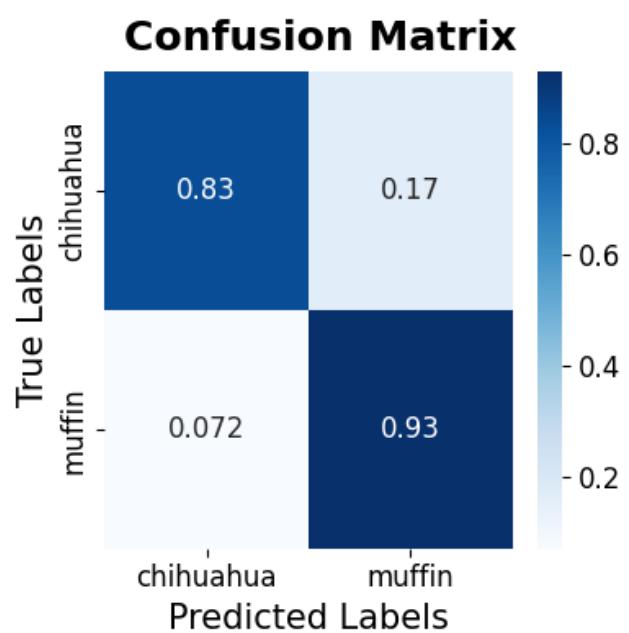
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,964,552 (30.38 MB)

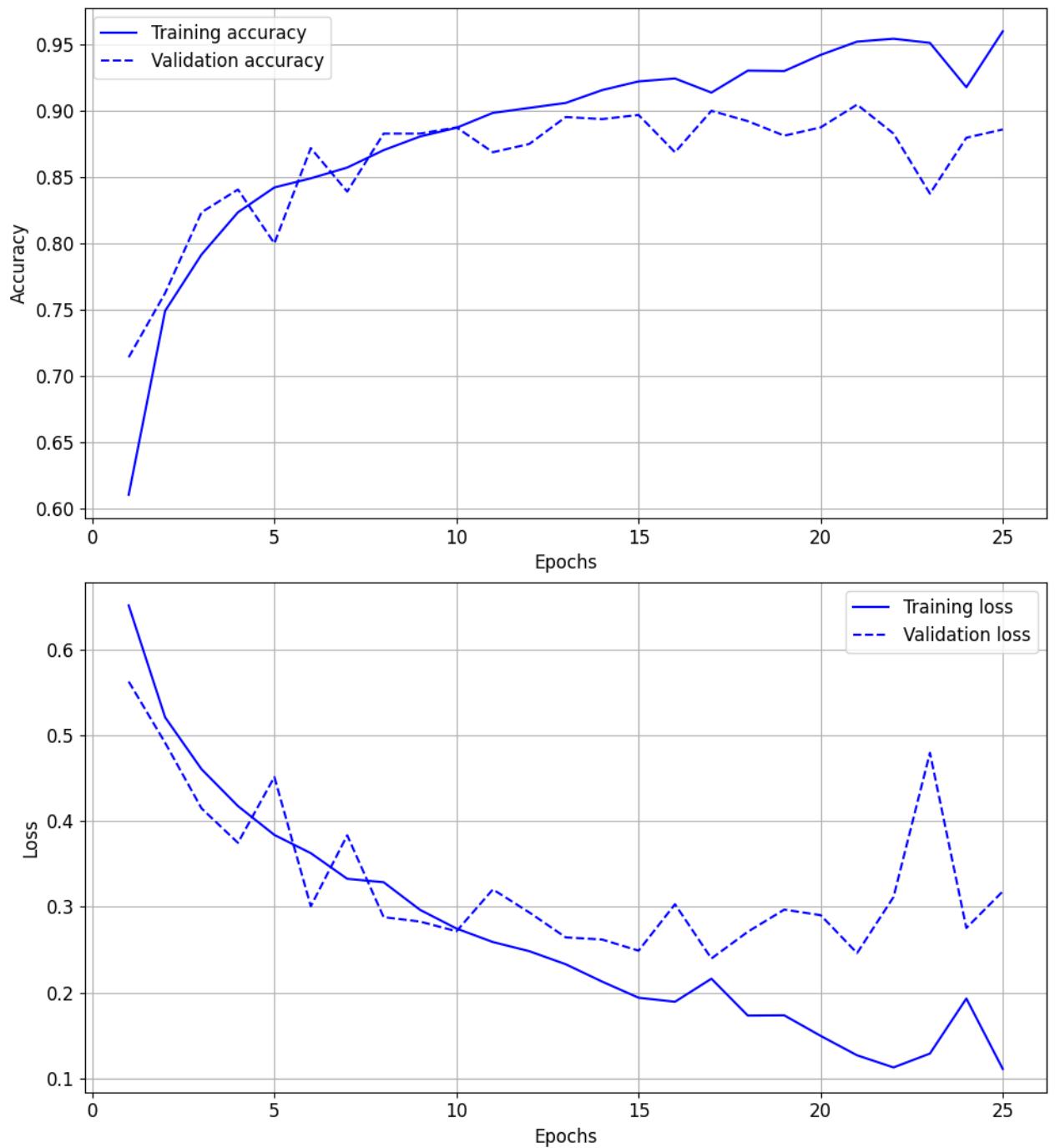
Trainable params: 2,654,850 (10.13 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,309,702 (20.25 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9297	0.8323	0.8783	477
muffin	0.8283	0.9279	0.8753	416
micro avg	0.8768	0.8768	0.8768	893
macro avg	0.8790	0.8801	0.8768	893
weighted avg	0.8825	0.8768	0.8769	893
samples avg	0.8768	0.8768	0.8768	893

trial_71

- *Start Time:* 2024-10-20 12:13:13
- *Duration:* 22.933
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	32
kernel_size2	3
dense_units	128
dropout_rate	0.14117755210502736
learning_rate	6.434106144148028e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9172	0.8922	0.8768
precision	0.9172	0.8922	0.8768
recall	0.9172	0.8922	0.8768
f1	0.9172	0.8922	0.8768

Figures:

Model Summary

Model: "sequential"

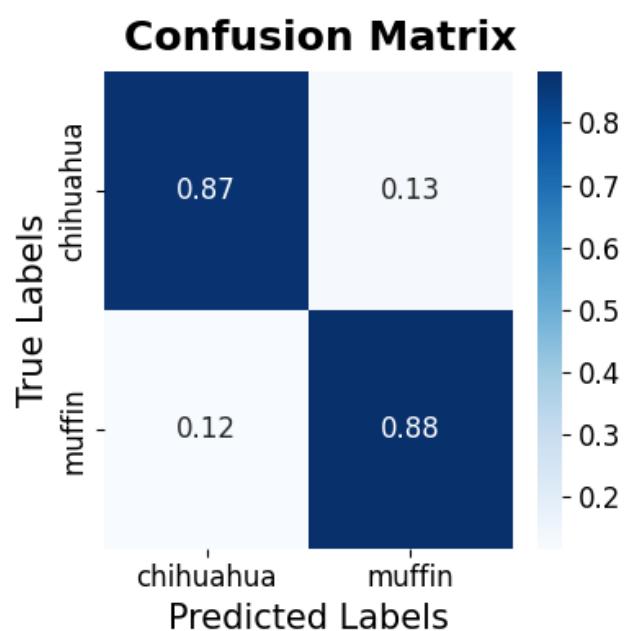
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 61, 61, 32)	36,896
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 32)	0
conv2d_2 (Conv2D)	(None, 28, 28, 32)	9,248
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 32)	0
flatten (Flatten)	(None, 6272)	0
dense (Dense)	(None, 128)	802,944
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 2,608,328 (9.95 MB)

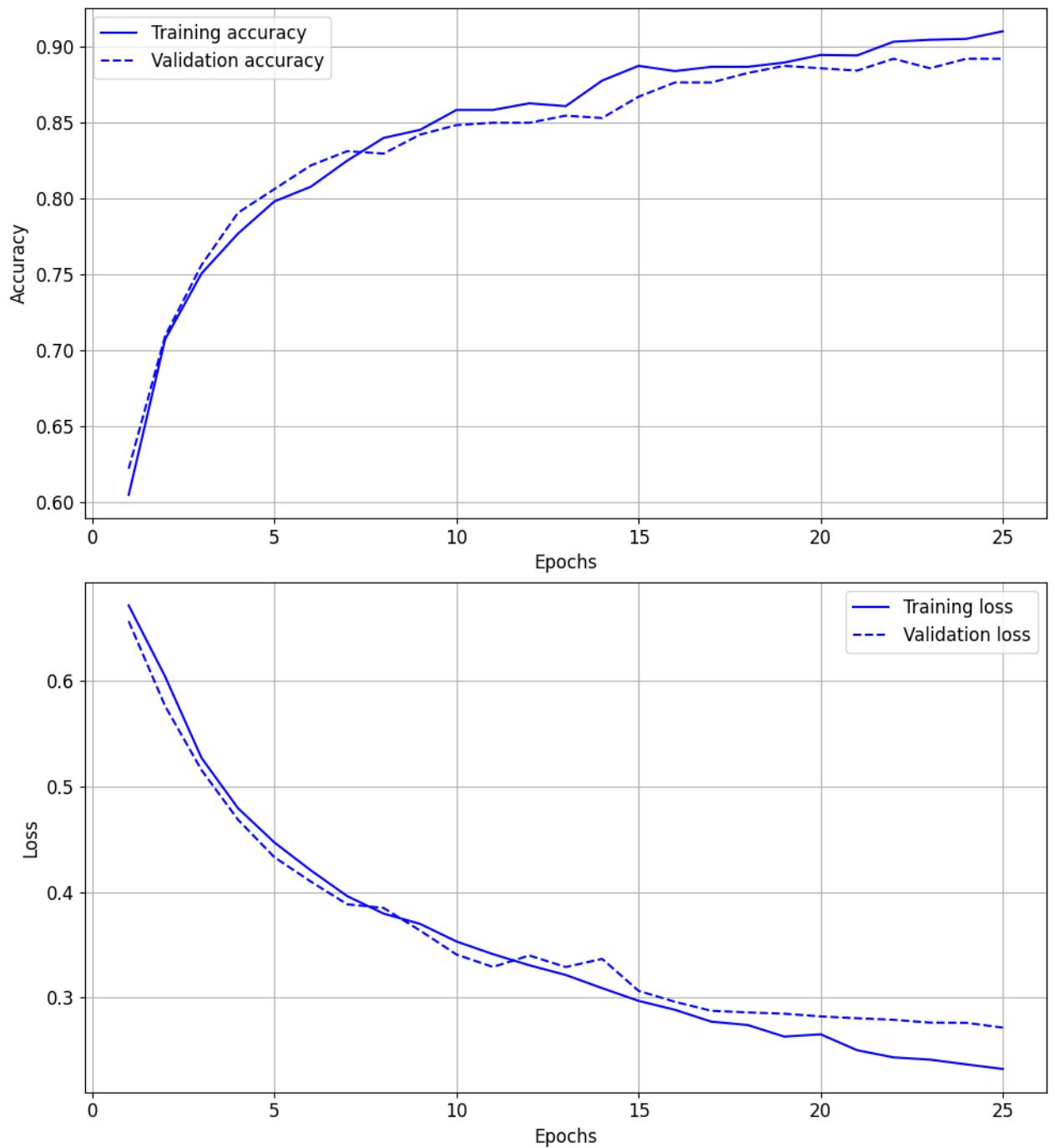
Trainable params: 869,442 (3.32 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 1,738,886 (6.63 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8946	0.8721	0.8832	477
muffin	0.8575	0.8822	0.8697	416
micro avg	0.8768	0.8768	0.8768	893
macro avg	0.8761	0.8772	0.8764	893
weighted avg	0.8773	0.8768	0.8769	893
samples avg	0.8768	0.8768	0.8768	893

trial_12

- *Start Time:* 2024-10-20 11:43:43
- *Duration:* 19.399
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	5
units2	32
kernel_size2	7
dense_units	512
dropout_rate	0.4964779710570115
learning_rate	3.551466008199711e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8956	0.8766	0.8746
precision	0.8956	0.8766	0.8746
recall	0.8956	0.8766	0.8746
f1	0.8956	0.8766	0.8746

Figures:

Model Summary

Model: "sequential"

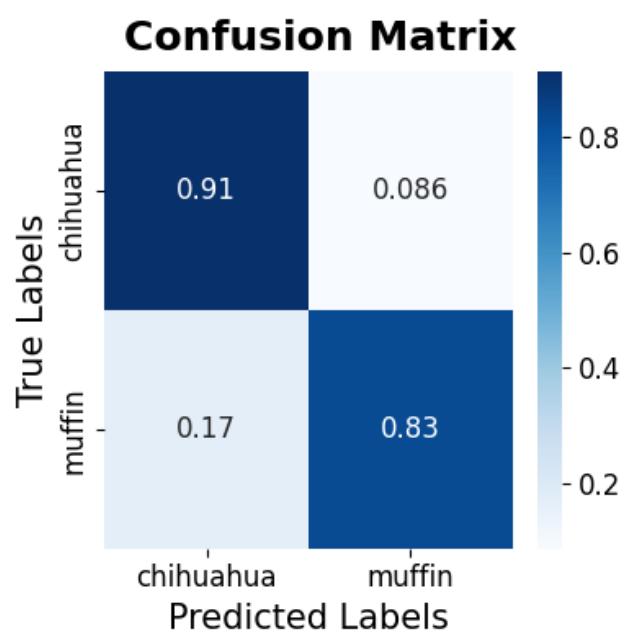
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 64)	4,864
max_pooling2d (MaxPooling2D)	(None, 62, 62, 64)	0
conv2d_1 (Conv2D)	(None, 56, 56, 32)	100,384
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 32)	0
conv2d_2 (Conv2D)	(None, 22, 22, 32)	50,208
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 32)	0
flatten (Flatten)	(None, 3872)	0
dense (Dense)	(None, 512)	1,982,976
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 7,206,344 (27.49 MB)

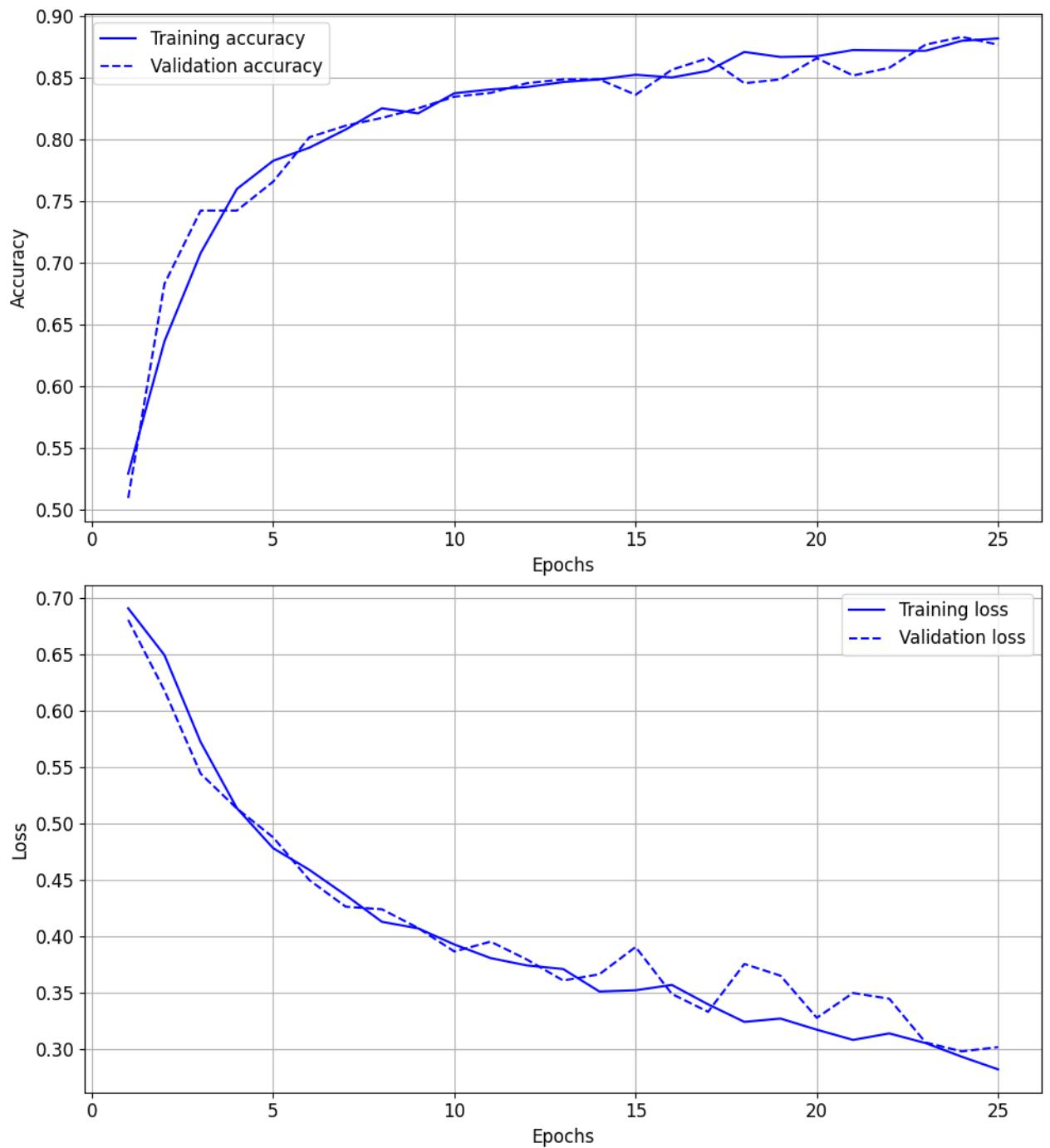
Trainable params: 2,402,114 (9.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 4,804,230 (18.33 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8600	0.9140	0.8862	477
muffin	0.8938	0.8293	0.8603	416
micro avg	0.8746	0.8746	0.8746	893
macro avg	0.8769	0.8717	0.8733	893
weighted avg	0.8757	0.8746	0.8741	893
samples avg	0.8746	0.8746	0.8746	893

trial_78

- *Start Time:* 2024-10-20 12:16:19
- *Duration:* 33.717
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	5
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.19207080563041942
learning_rate	0.00022715767826903932

Evaluation Metrics:

	train	val	test
accuracy	0.9697	0.8672	0.8746
precision	0.9697	0.8672	0.8746
recall	0.9697	0.8672	0.8746
f1	0.9697	0.8672	0.8746

Figures:

Model Summary

Model: "sequential"

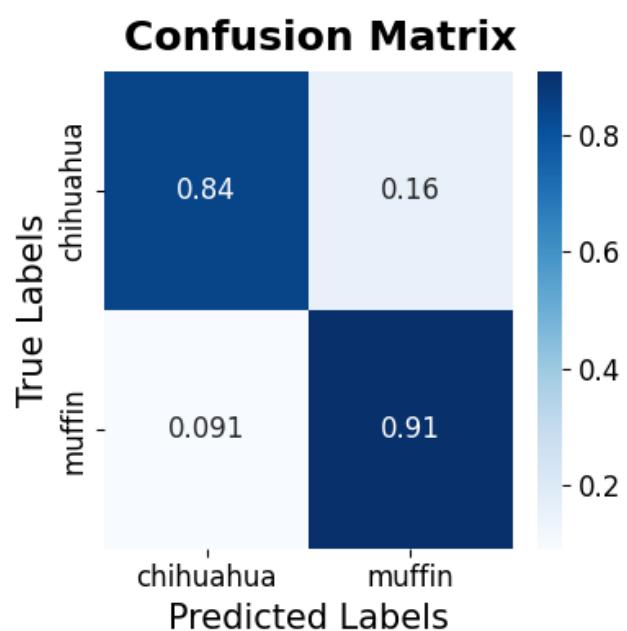
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 128)	9,728
max_pooling2d (MaxPooling2D)	(None, 62, 62, 128)	0
conv2d_1 (Conv2D)	(None, 56, 56, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,982,984 (30.45 MB)

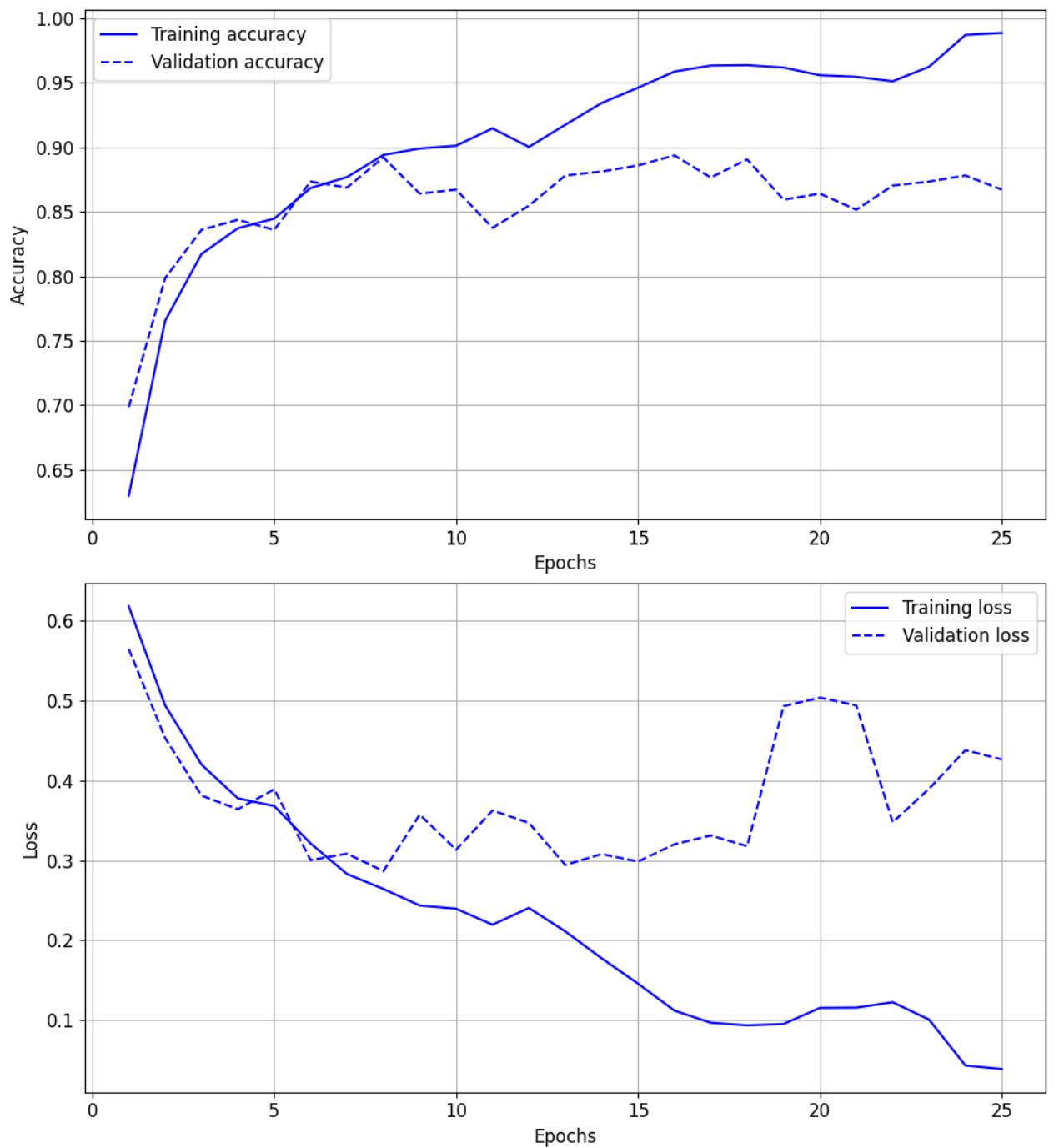
Trainable params: 2,660,994 (10.15 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,321,990 (20.30 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9138	0.8449	0.8780	477
muffin	0.8363	0.9087	0.8710	416
micro avg	0.8746	0.8746	0.8746	893
macro avg	0.8751	0.8768	0.8745	893
weighted avg	0.8777	0.8746	0.8747	893
samples avg	0.8746	0.8746	0.8746	893

trial_13

- *Start Time:* 2024-10-20 11:44:03
- *Duration:* 18.345
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	7
units2	32
kernel_size2	3
dense_units	512
dropout_rate	0.37797444242236816
learning_rate	3.366101269326337e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8913	0.8594	0.8735
precision	0.8913	0.8594	0.8735
recall	0.8913	0.8594	0.8735
f1	0.8912	0.8594	0.8735

Figures:

Model Summary

Model: "sequential"

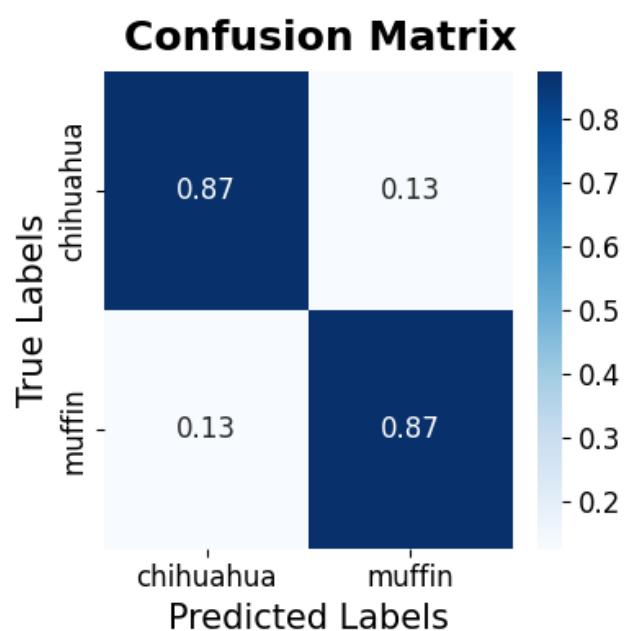
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 122, 122, 64)	9,472
max_pooling2d (MaxPooling2D)	(None, 61, 61, 64)	0
conv2d_1 (Conv2D)	(None, 59, 59, 32)	18,464
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 32)	0
conv2d_2 (Conv2D)	(None, 27, 27, 32)	9,248
max_pooling2d_2 (MaxPooling2D)	(None, 13, 13, 32)	0
flatten (Flatten)	(None, 5408)	0
dense (Dense)	(None, 512)	2,769,408
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 9,210,824 (35.14 MB)

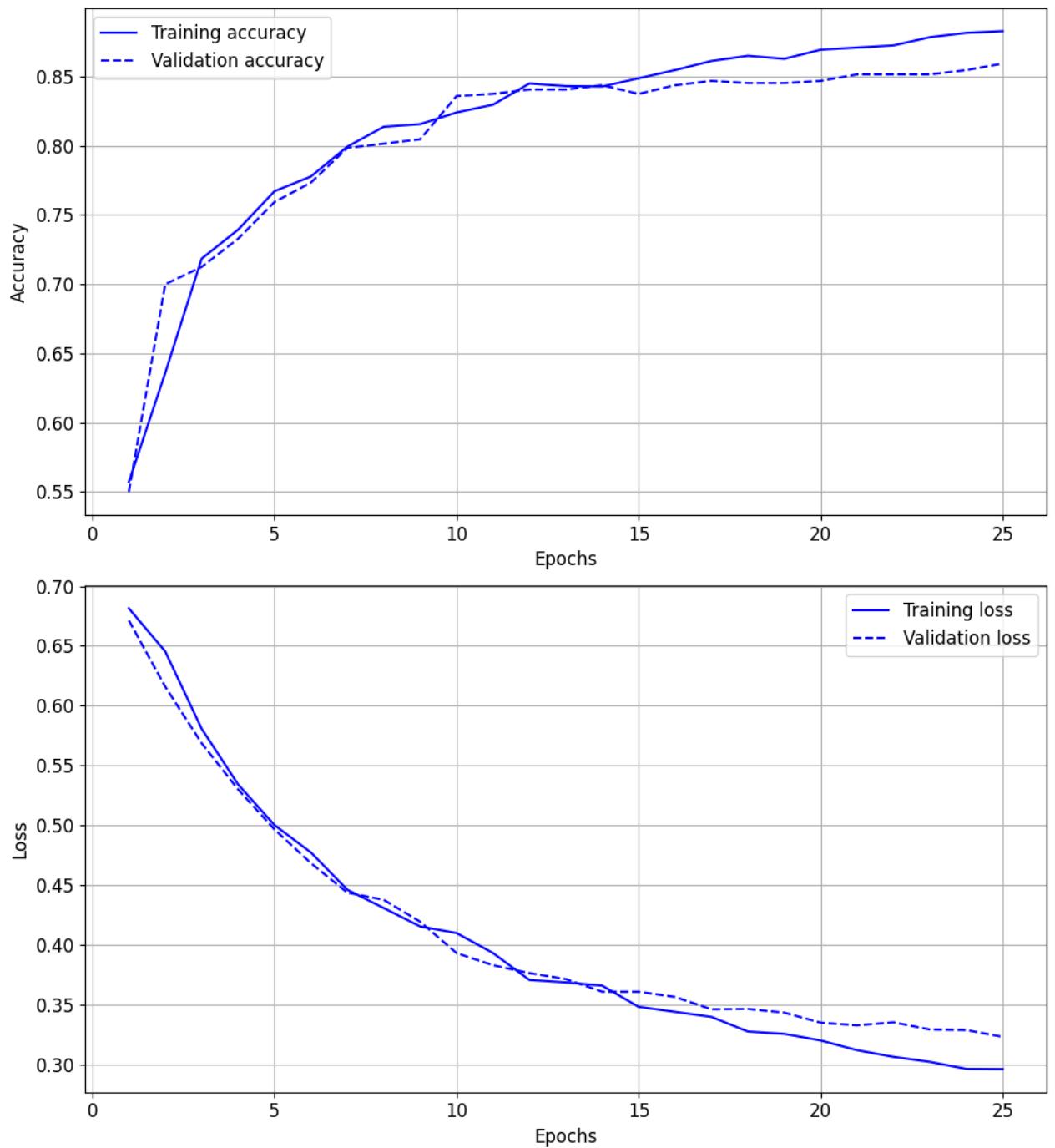
Trainable params: 3,070,274 (11.71 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 6,140,550 (23.42 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8872	0.8742	0.8807	477
muffin	0.8582	0.8726	0.8653	416
micro avg	0.8735	0.8735	0.8735	893
macro avg	0.8727	0.8734	0.8730	893
weighted avg	0.8737	0.8735	0.8735	893
samples avg	0.8735	0.8735	0.8735	893

trial_19

- *Start Time:* 2024-10-20 11:46:17
- *Duration:* 25.226
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	3
dense_units	256
dropout_rate	0.04303270956003625
learning_rate	1.9288492323532306e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9016	0.8906	0.8735
precision	0.9016	0.8906	0.8735
recall	0.9016	0.8906	0.8735
f1	0.9016	0.8906	0.8735

Figures:

Model Summary

Model: "sequential"

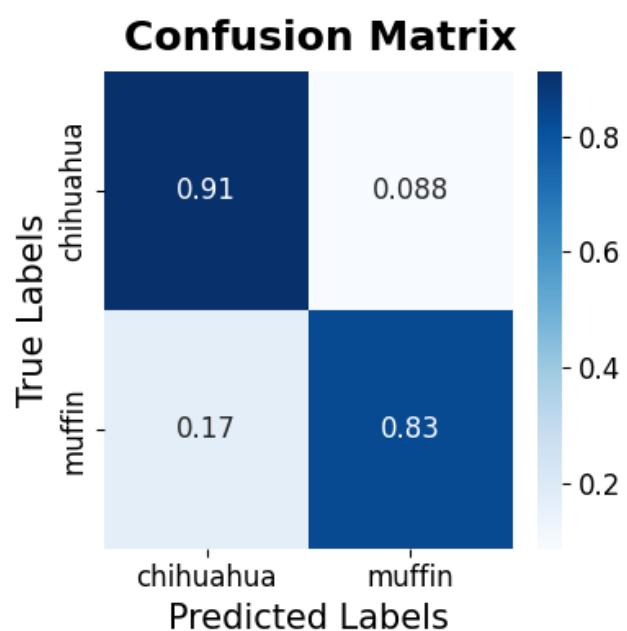
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 61, 61, 64)	73,792
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 64)	0
conv2d_2 (Conv2D)	(None, 28, 28, 64)	36,928
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 64)	0
flatten (Flatten)	(None, 12544)	0
dense (Dense)	(None, 256)	3,211,520
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 10,176,392 (38.82 MB)

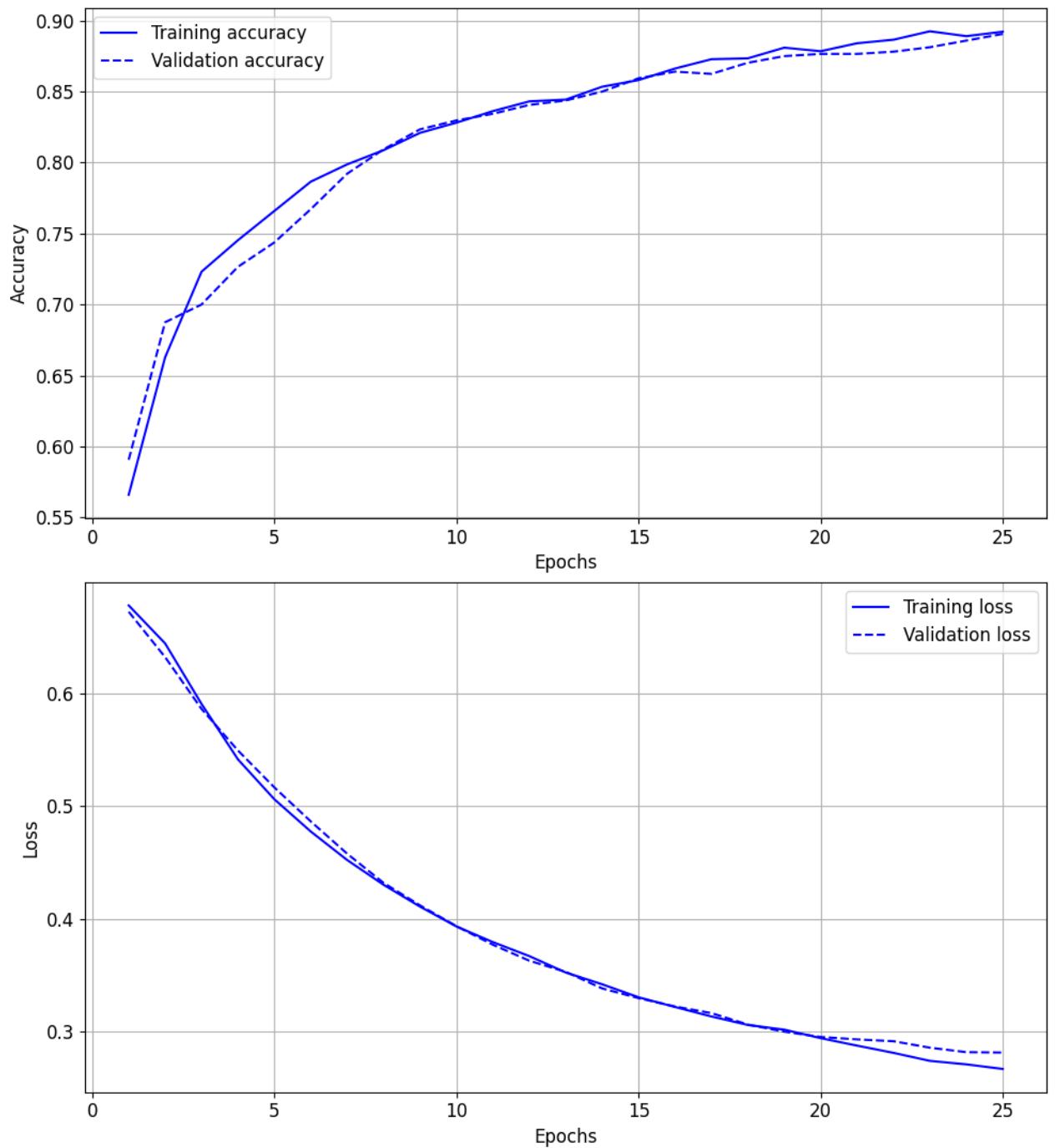
Trainable params: 3,392,130 (12.94 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 6,784,262 (25.88 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8597	0.9119	0.8850	477
muffin	0.8915	0.8293	0.8593	416
micro avg	0.8735	0.8735	0.8735	893
macro avg	0.8756	0.8706	0.8722	893
weighted avg	0.8745	0.8735	0.8730	893
samples avg	0.8735	0.8735	0.8735	893

trial_60

- *Start Time:* 2024-10-20 12:07:26
- *Duration:* 32.817
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.3437603374751716
learning_rate	4.6014787197109964e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8922	0.8594	0.8723
precision	0.8922	0.8594	0.8723
recall	0.8922	0.8594	0.8723
f1	0.8922	0.8594	0.8723

Figures:

Model Summary

Model: "sequential"

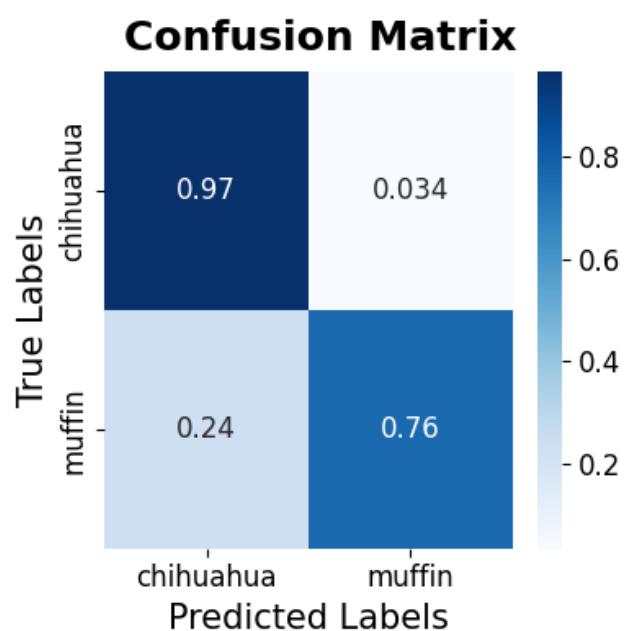
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

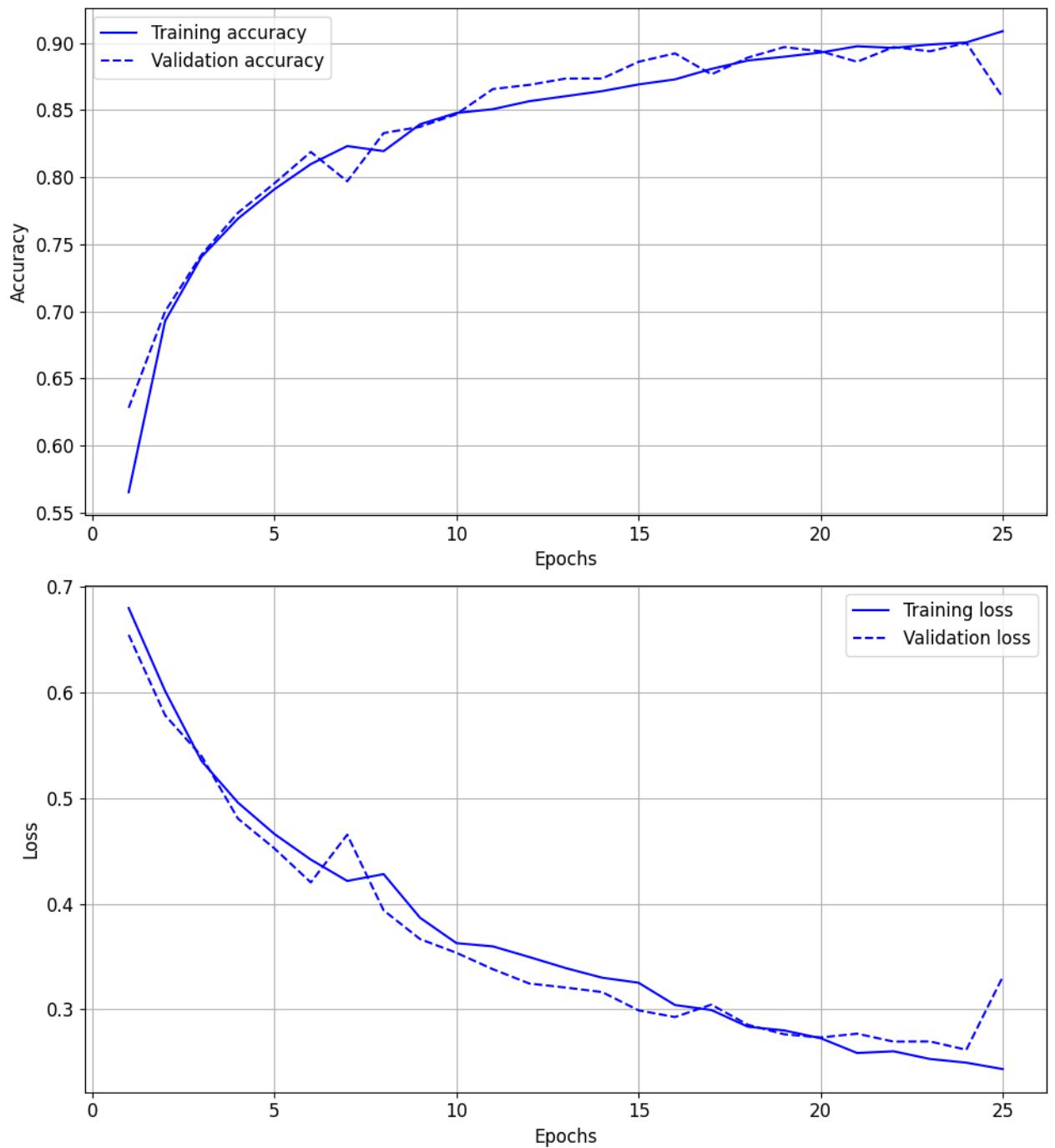
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8247	0.9665	0.8900	477
muffin	0.9521	0.7644	0.8480	416
micro avg	0.8723	0.8723	0.8723	893
macro avg	0.8884	0.8654	0.8690	893
weighted avg	0.8840	0.8723	0.8704	893
samples avg	0.8723	0.8723	0.8723	893

trial_66

- *Start Time:* 2024-10-20 12:10:33
- *Duration:* 29.221
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	128
dropout_rate	0.06820916175008601
learning_rate	0.0005985747734453099

Evaluation Metrics:

	train	val	test
accuracy	0.9516	0.8641	0.8712
precision	0.9516	0.8641	0.8712
recall	0.9516	0.8641	0.8712
f1	0.9516	0.8641	0.8712

Figures:

Model Summary

Model: "sequential"

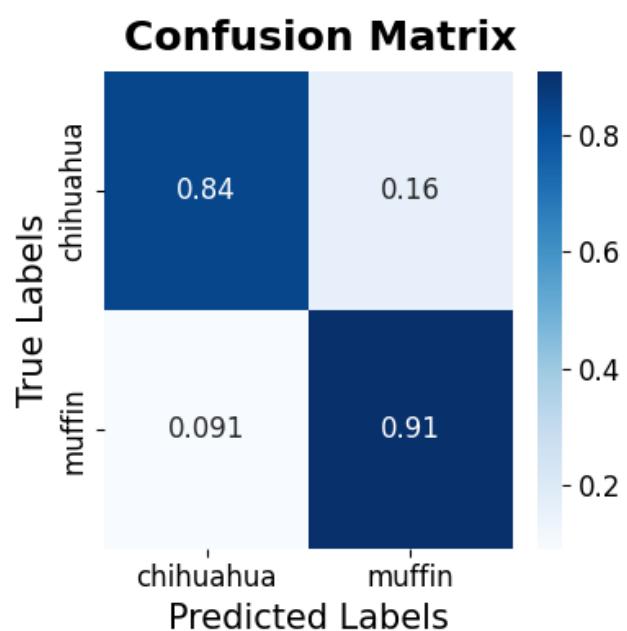
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1,179,776
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,522,376 (17.25 MB)

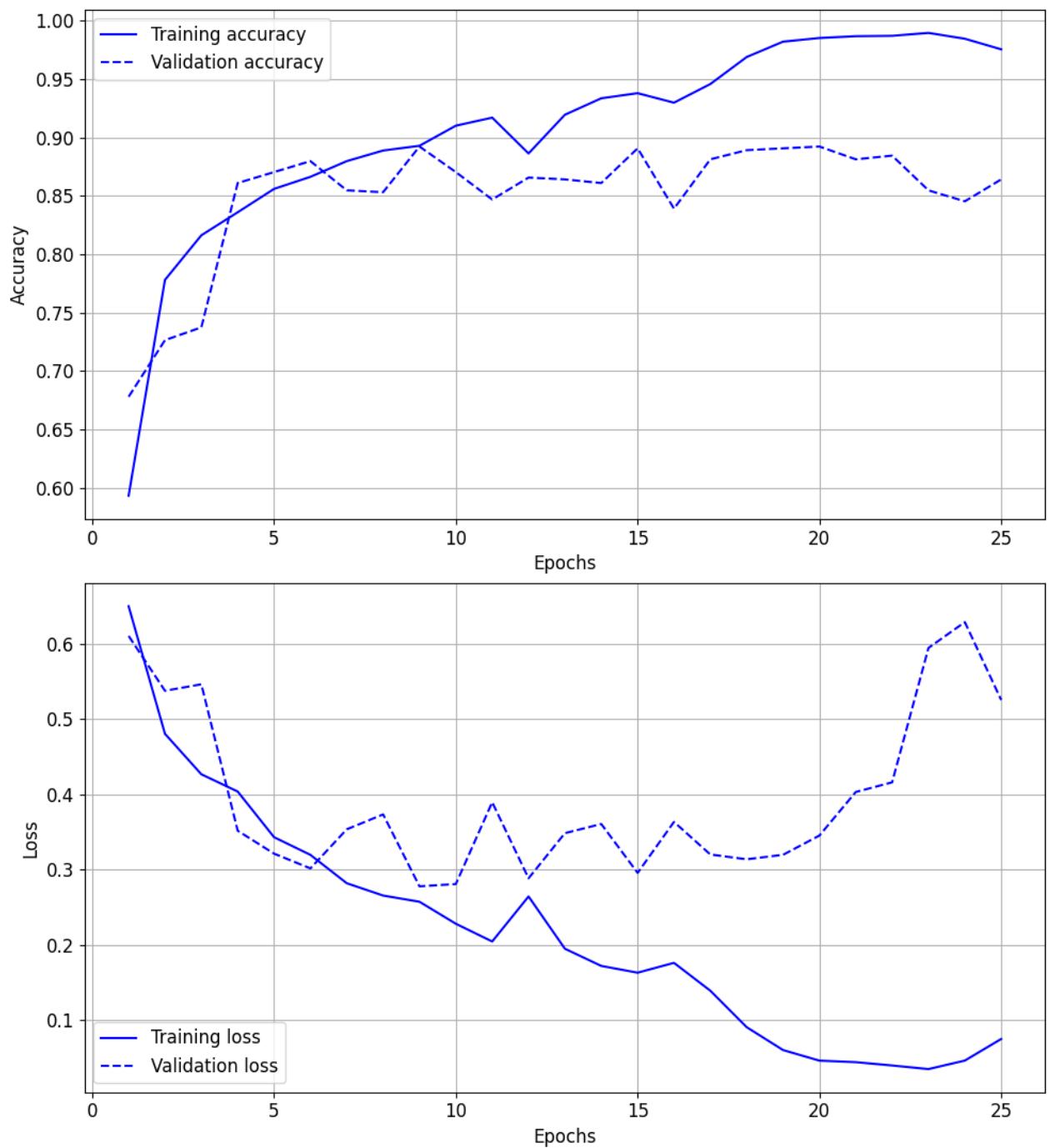
Trainable params: 1,507,458 (5.75 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,014,918 (11.50 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9132	0.8386	0.8743	477
muffin	0.8308	0.9087	0.8680	416
micro avg	0.8712	0.8712	0.8712	893
macro avg	0.8720	0.8736	0.8711	893
weighted avg	0.8748	0.8712	0.8714	893
samples avg	0.8712	0.8712	0.8712	893

trial_3

- *Start Time:* 2024-10-20 11:39:16
- *Duration:* 29.040
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	3
dense_units	256
dropout_rate	0.14559779403218226
learning_rate	0.0007137825218674884

Evaluation Metrics:

	train	val	test
accuracy	0.9950	0.8719	0.8701
precision	0.9950	0.8719	0.8701
recall	0.9950	0.8719	0.8701
f1	0.9950	0.8719	0.8701

Figures:

Model Summary

Model: "sequential"

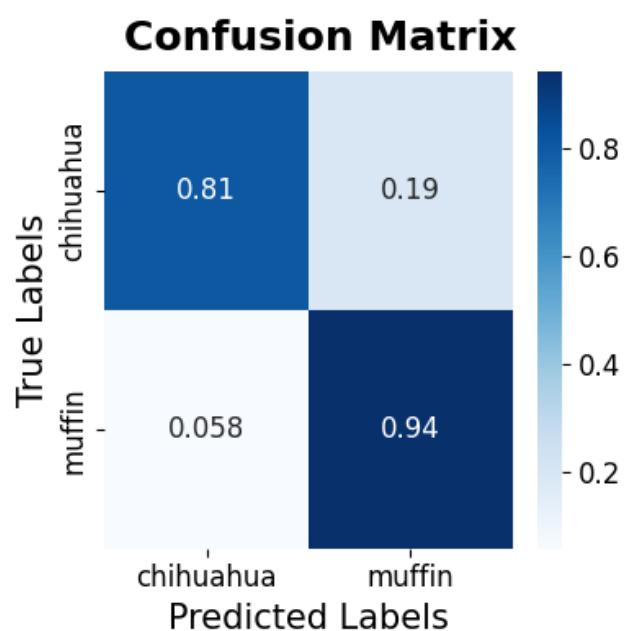
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 61, 61, 64)	73,792
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 64)	0
conv2d_2 (Conv2D)	(None, 28, 28, 64)	36,928
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 64)	0
flatten (Flatten)	(None, 12544)	0
dense (Dense)	(None, 256)	3,211,520
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 10,176,392 (38.82 MB)

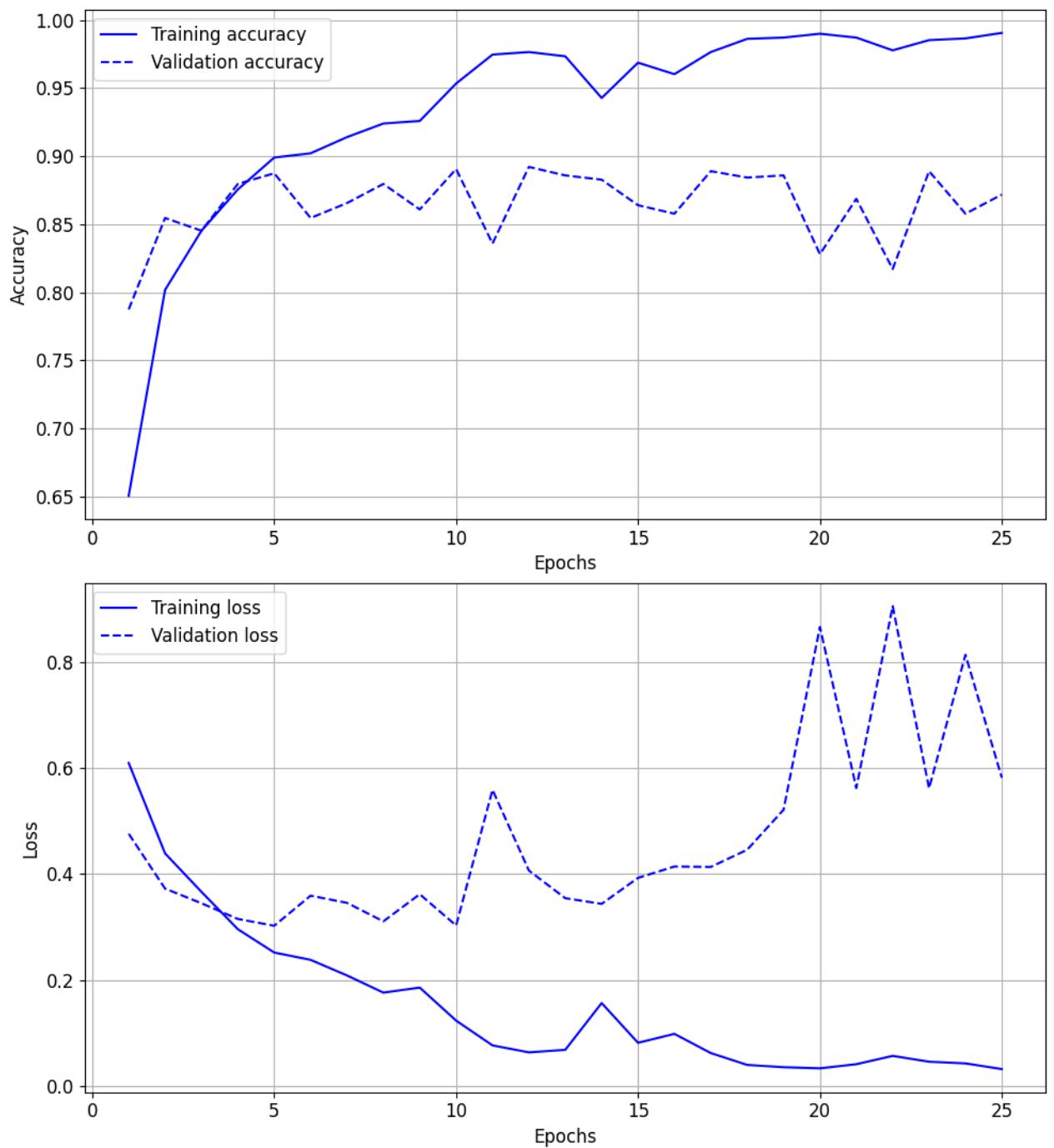
Trainable params: 3,392,130 (12.94 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 6,784,262 (25.88 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9413	0.8071	0.8691	477
muffin	0.8099	0.9423	0.8711	416
micro avg	0.8701	0.8701	0.8701	893
macro avg	0.8756	0.8747	0.8701	893
weighted avg	0.8801	0.8701	0.8700	893
samples avg	0.8701	0.8701	0.8701	893

trial_62

- *Start Time:* 2024-10-20 12:08:34
- *Duration:* 29.579
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	128
dropout_rate	0.10108807422564778
learning_rate	0.00012275795651540898

Evaluation Metrics:

	train	val	test
accuracy	0.9181	0.8578	0.8701
precision	0.9181	0.8578	0.8701
recall	0.9181	0.8578	0.8701
f1	0.9181	0.8578	0.8701

Figures:

Model Summary

Model: "sequential"

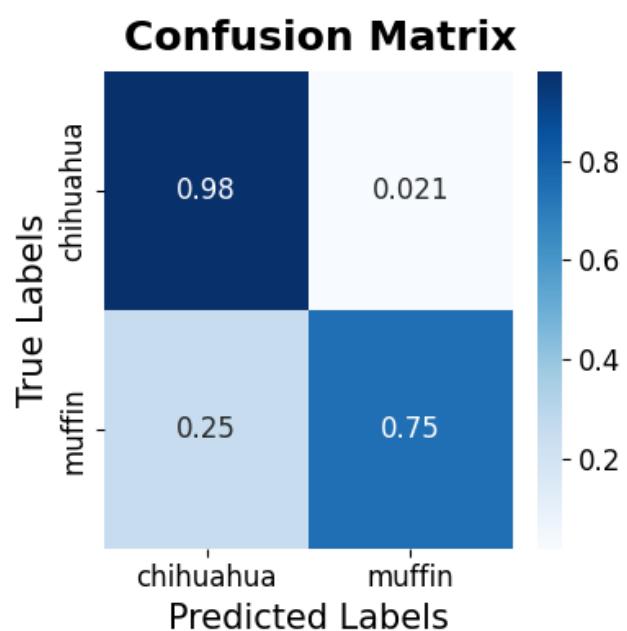
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 128)	1,179,776
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,522,376 (17.25 MB)

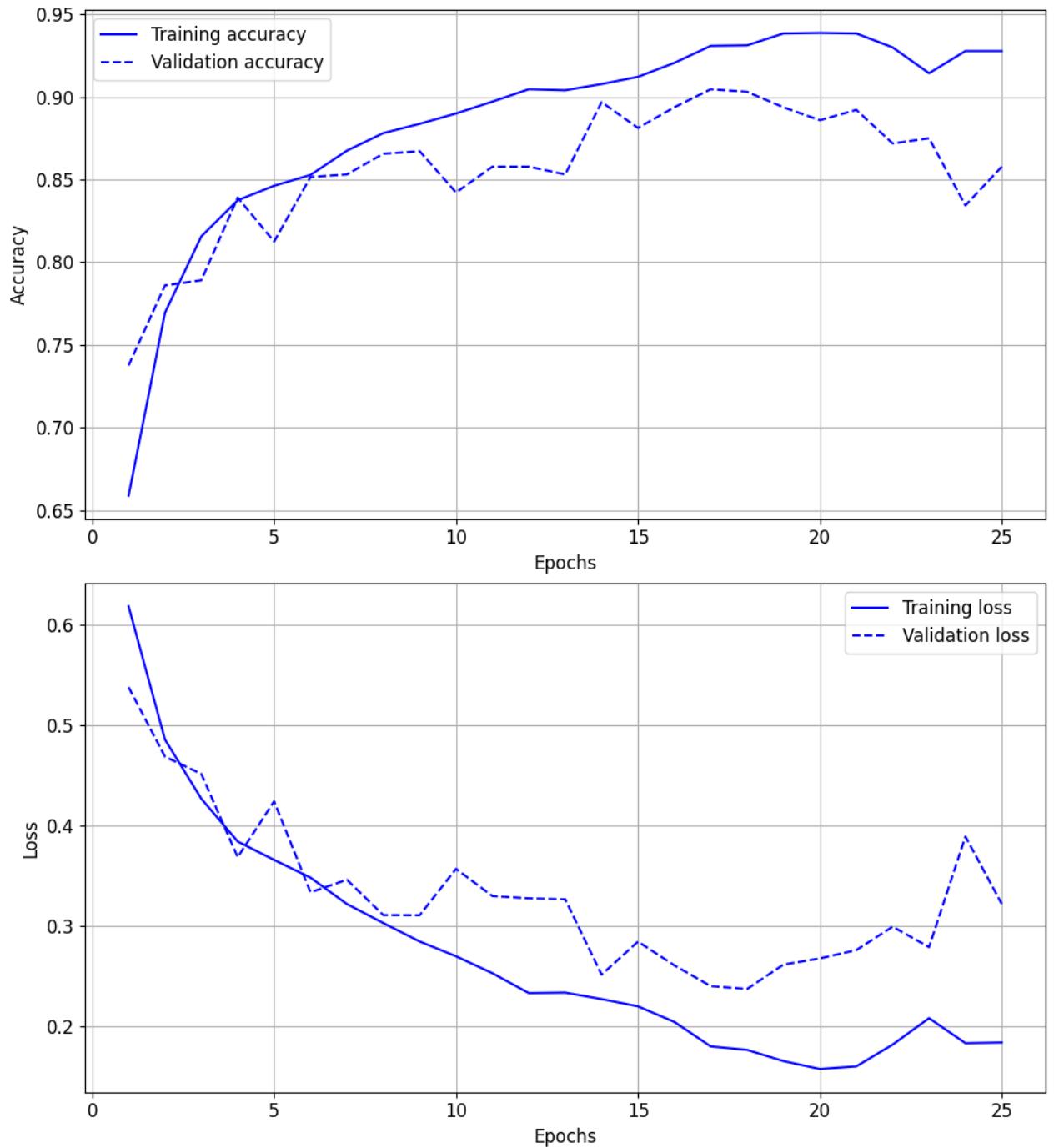
Trainable params: 1,507,458 (5.75 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,014,918 (11.50 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8150	0.9790	0.8895	477
muffin	0.9688	0.7452	0.8424	416
micro avg	0.8701	0.8701	0.8701	893
macro avg	0.8919	0.8621	0.8660	893
weighted avg	0.8866	0.8701	0.8676	893
samples avg	0.8701	0.8701	0.8701	893

trial_17

- *Start Time:* 2024-10-20 11:45:29
- *Duration:* 21.968
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	7
units2	16
kernel_size2	7
dense_units	256
dropout_rate	0.21010554521069352
learning_rate	5.366887988521354e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8803	0.8687	0.8690
precision	0.8803	0.8687	0.8690
recall	0.8803	0.8687	0.8690
f1	0.8803	0.8687	0.8690

Figures:

Model Summary

Model: "sequential"

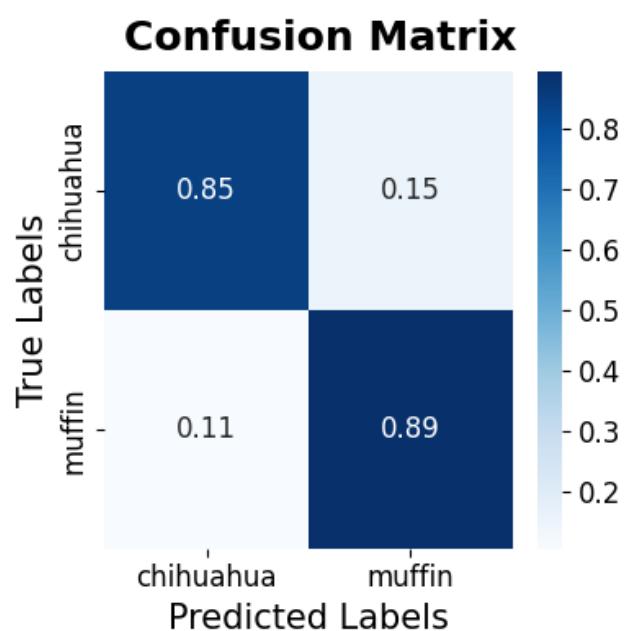
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 122, 122, 64)	9,472
max_pooling2d (MaxPooling2D)	(None, 61, 61, 64)	0
conv2d_1 (Conv2D)	(None, 55, 55, 16)	50,192
max_pooling2d_1 (MaxPooling2D)	(None, 27, 27, 16)	0
conv2d_2 (Conv2D)	(None, 21, 21, 16)	12,560
max_pooling2d_2 (MaxPooling2D)	(None, 10, 10, 16)	0
flatten (Flatten)	(None, 1600)	0
dense (Dense)	(None, 256)	409,856
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 1,645,160 (6.28 MB)

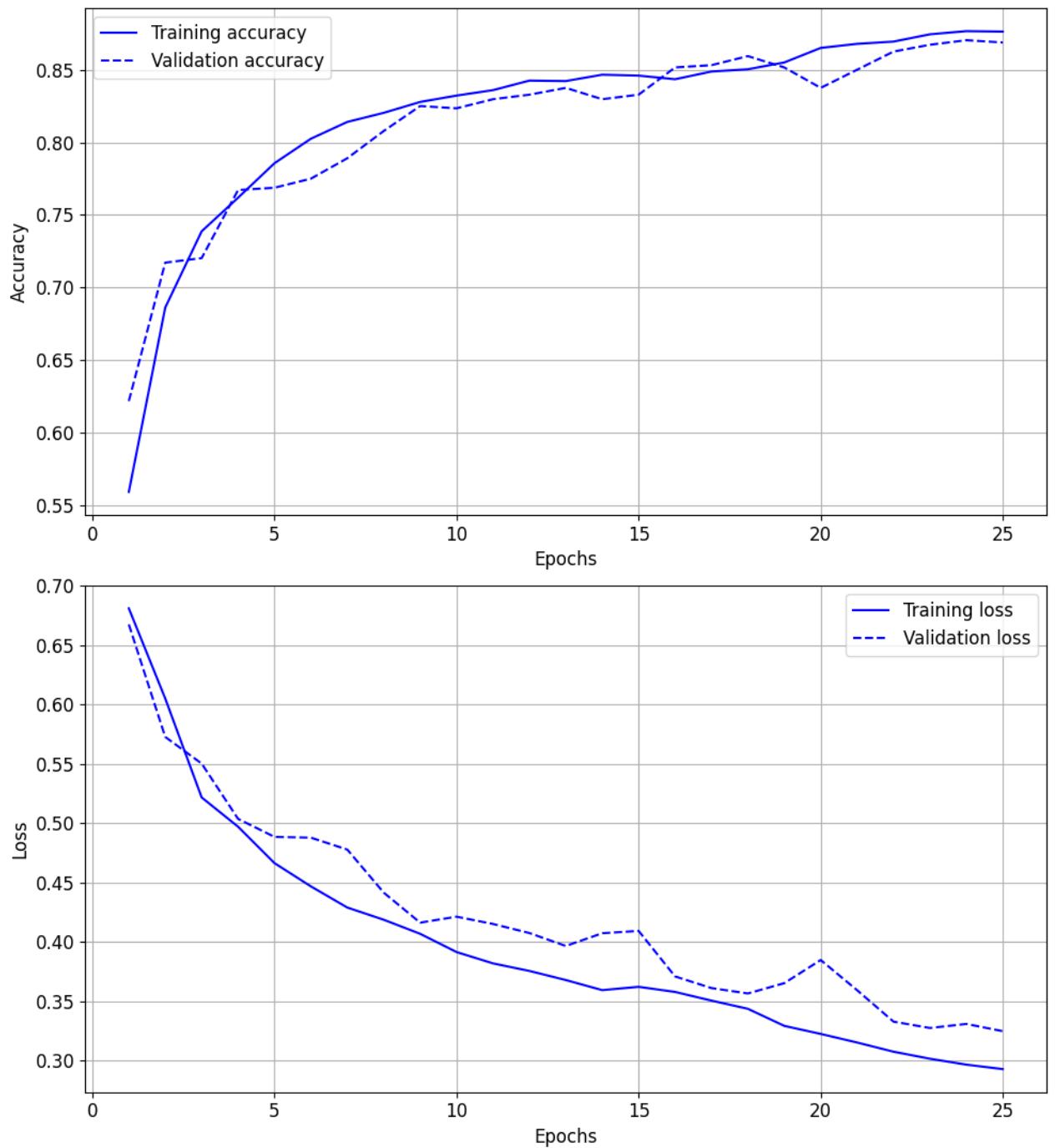
Trainable params: 548,386 (2.09 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 1,096,774 (4.18 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9018	0.8470	0.8735	477
muffin	0.8360	0.8942	0.8641	416
micro avg	0.8690	0.8690	0.8690	893
macro avg	0.8689	0.8706	0.8688	893
weighted avg	0.8711	0.8690	0.8691	893
samples avg	0.8690	0.8690	0.8690	893

trial_20

- *Start Time:* 2024-10-20 11:46:43
- *Duration:* 20.107
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	3
units2	64
kernel_size2	3
dense_units	128
dropout_rate	0.010481830196475972
learning_rate	2.1805273979499866e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8950	0.8703	0.8690
precision	0.8950	0.8703	0.8690
recall	0.8950	0.8703	0.8690
f1	0.8950	0.8703	0.8690

Figures:

Model Summary

Model: "sequential"

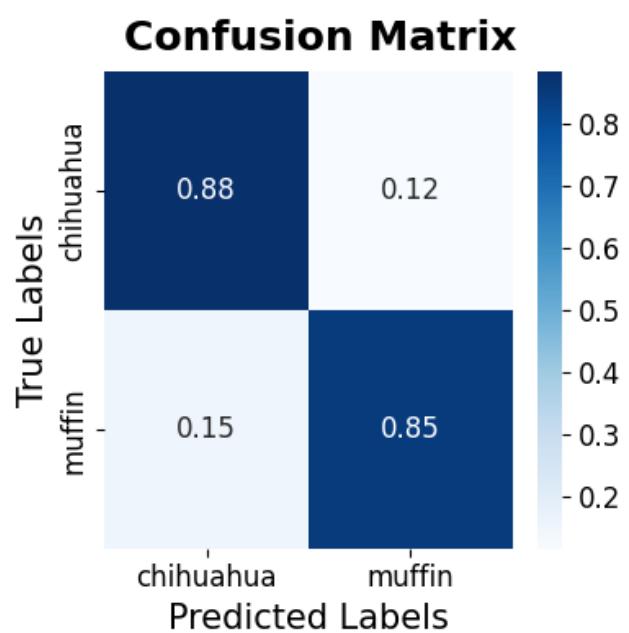
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 64)	1,792
max_pooling2d (MaxPooling2D)	(None, 63, 63, 64)	0
conv2d_1 (Conv2D)	(None, 61, 61, 64)	36,928
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 64)	0
conv2d_2 (Conv2D)	(None, 28, 28, 64)	36,928
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 64)	0
flatten (Flatten)	(None, 12544)	0
dense (Dense)	(None, 128)	1,605,760
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 5,094,536 (19.43 MB)

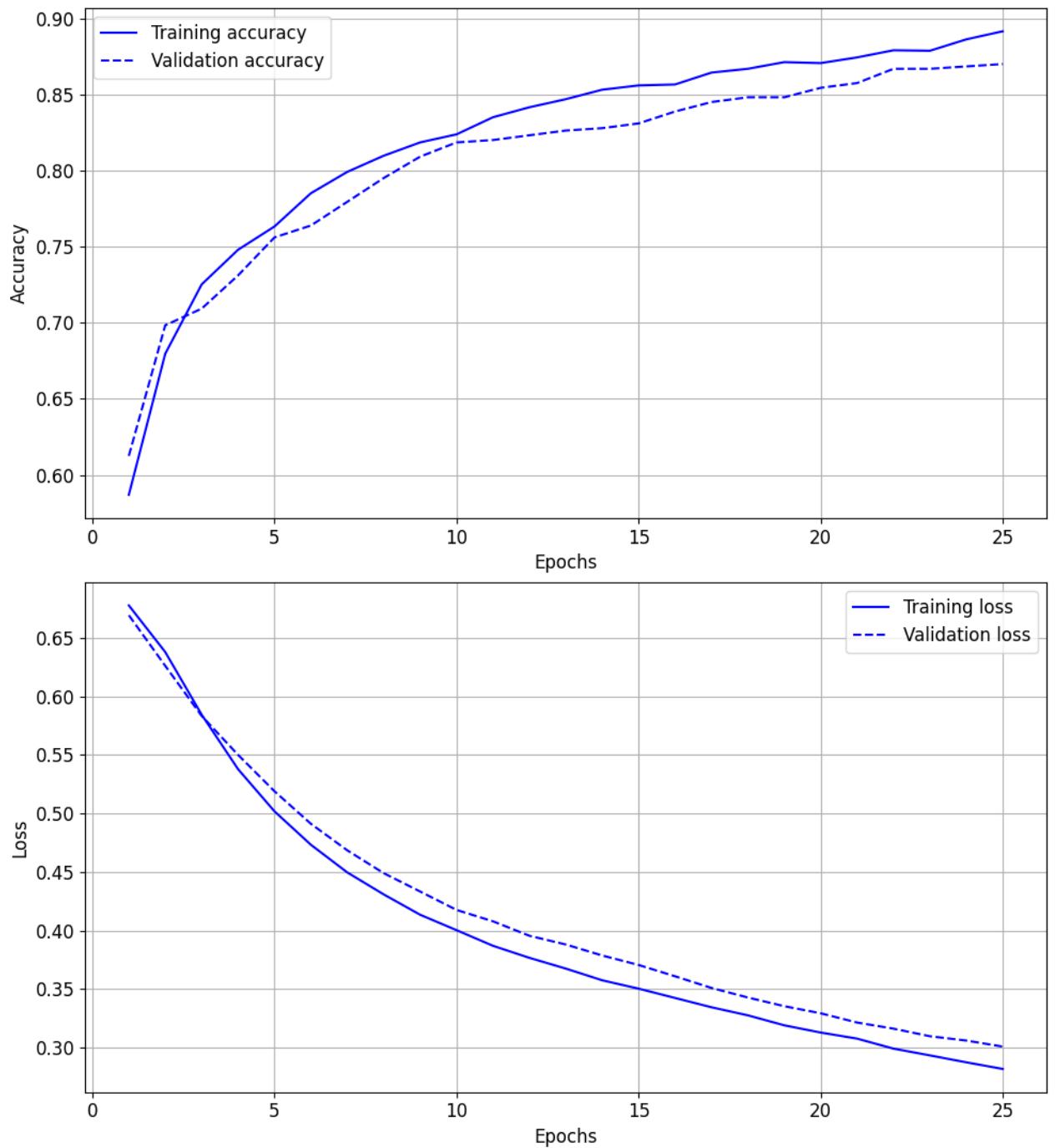
Trainable params: 1,698,178 (6.48 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,396,358 (12.96 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8719	0.8847	0.8783	477
muffin	0.8655	0.8510	0.8582	416
micro avg	0.8690	0.8690	0.8690	893
macro avg	0.8687	0.8678	0.8682	893
weighted avg	0.8689	0.8690	0.8689	893
samples avg	0.8690	0.8690	0.8690	893

trial_57

- *Start Time:* 2024-10-20 12:05:42
- *Duration:* 33.248
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.07726906680264775
learning_rate	6.242110191760458e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9084	0.8813	0.8690
precision	0.9084	0.8813	0.8690
recall	0.9084	0.8813	0.8690
f1	0.9084	0.8812	0.8690

Figures:

Model Summary

Model: "sequential"

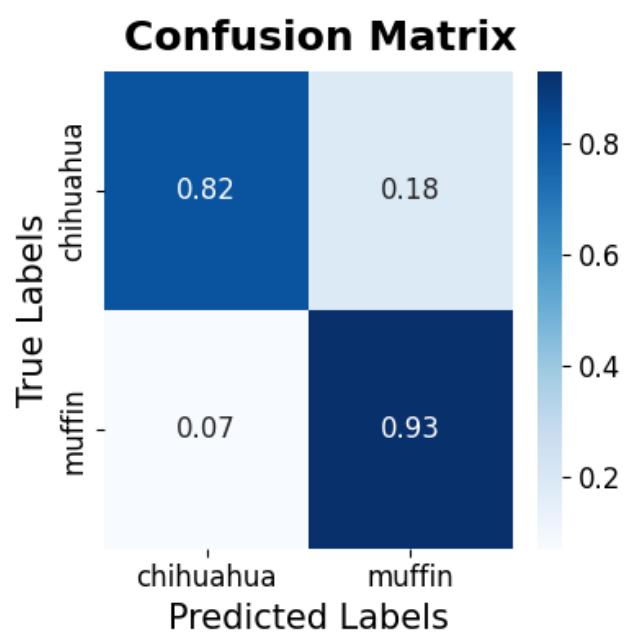
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,964,552 (30.38 MB)

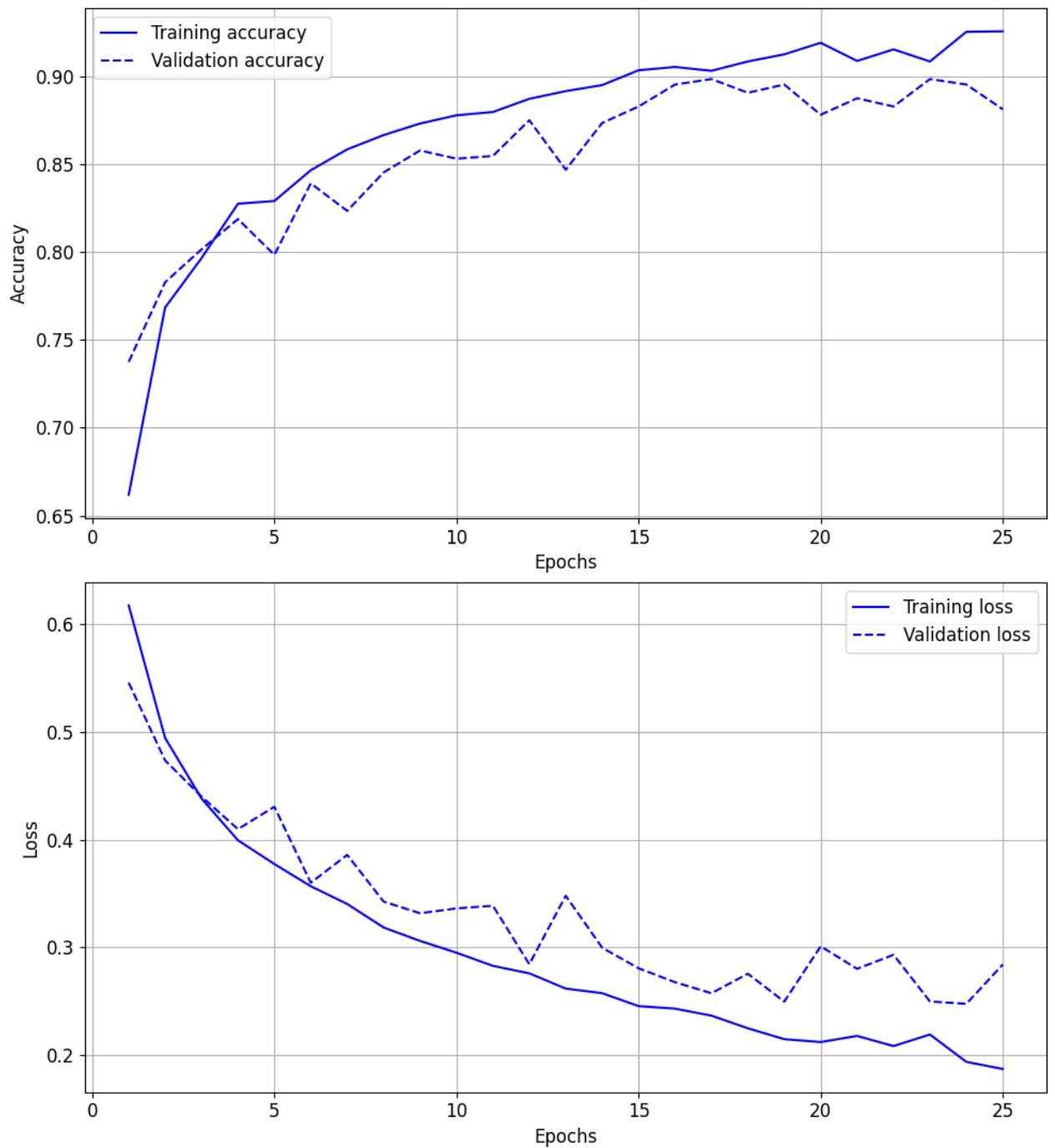
Trainable params: 2,654,850 (10.13 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,309,702 (20.25 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9306	0.8155	0.8693	477
muffin	0.8147	0.9303	0.8687	416
micro avg	0.8690	0.8690	0.8690	893
macro avg	0.8727	0.8729	0.8690	893
weighted avg	0.8766	0.8690	0.8690	893
samples avg	0.8690	0.8690	0.8690	893

trial_8

- *Start Time:* 2024-10-20 11:41:56
- *Duration:* 29.385
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	5
units2	64
kernel_size2	3
dense_units	256
dropout_rate	0.10948281219395428
learning_rate	0.00020019484108021215

Evaluation Metrics:

	train	val	test
accuracy	0.9597	0.8656	0.8667
precision	0.9597	0.8656	0.8667
recall	0.9597	0.8656	0.8667
f1	0.9597	0.8656	0.8667

Figures:

Model Summary

Model: "sequential"

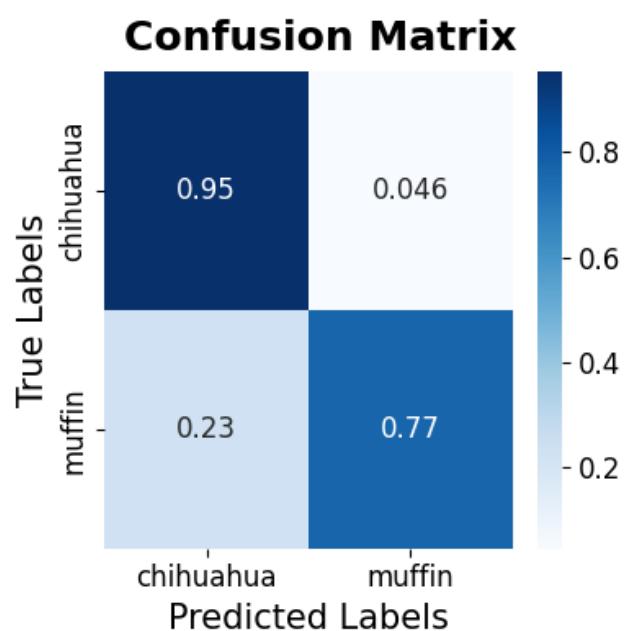
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 128)	9,728
max_pooling2d (MaxPooling2D)	(None, 62, 62, 128)	0
conv2d_1 (Conv2D)	(None, 60, 60, 64)	73,792
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 64)	0
conv2d_2 (Conv2D)	(None, 28, 28, 64)	36,928
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 64)	0
flatten (Flatten)	(None, 12544)	0
dense (Dense)	(None, 256)	3,211,520
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 10,194,824 (38.89 MB)

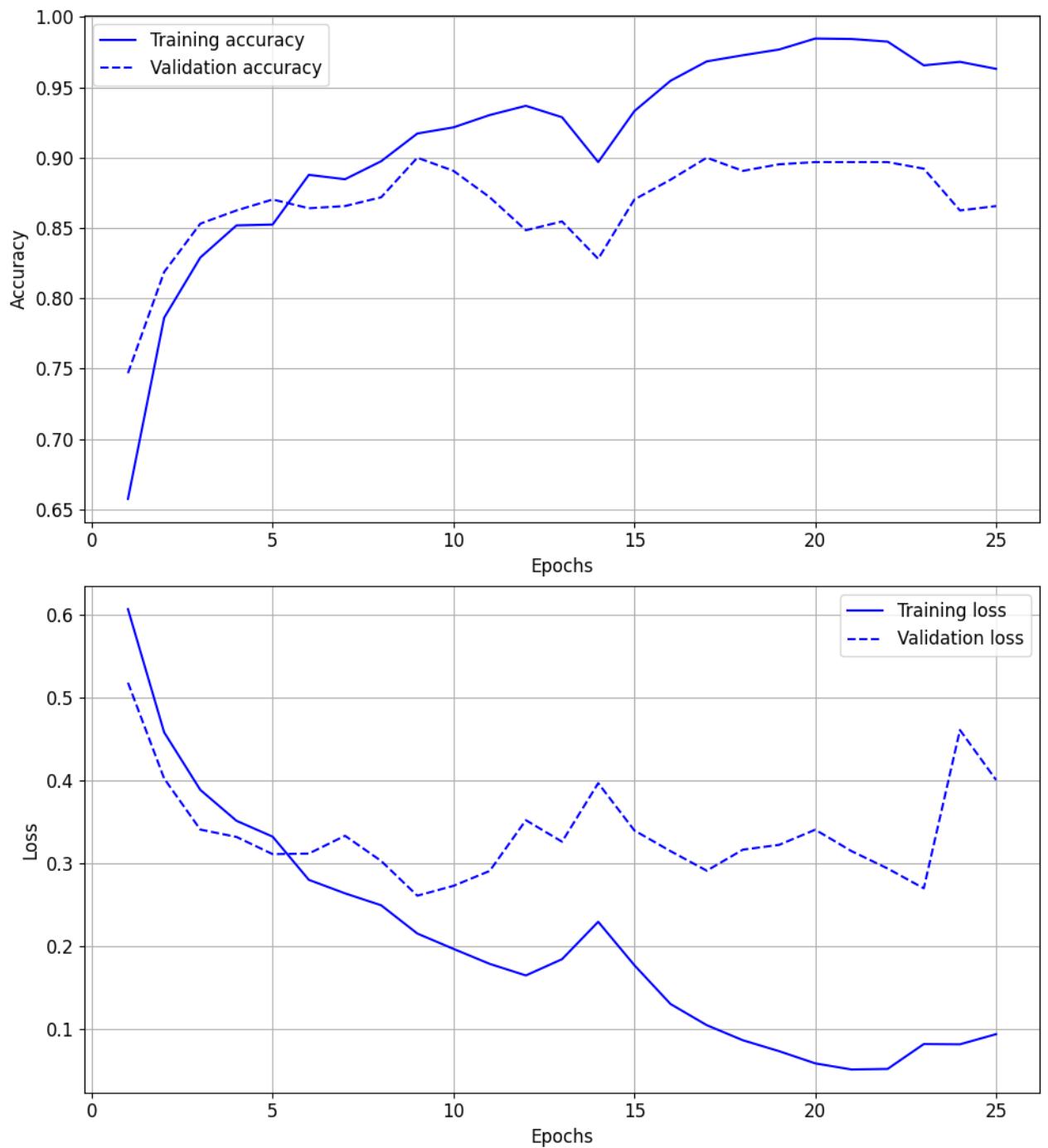
Trainable params: 3,398,274 (12.96 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 6,796,550 (25.93 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8243	0.9539	0.8844	477
muffin	0.9355	0.7668	0.8428	416
micro avg	0.8667	0.8667	0.8667	893
macro avg	0.8799	0.8604	0.8636	893
weighted avg	0.8761	0.8667	0.8650	893
samples avg	0.8667	0.8667	0.8667	893

trial_5

- *Start Time:* 2024-10-20 11:40:16
- *Duration:* 35.915
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	7
units2	64
kernel_size2	5
dense_units	256
dropout_rate	0.2760994721061053
learning_rate	0.00018135107347751143

Evaluation Metrics:

	train	val	test
accuracy	0.9559	0.8766	0.8634
precision	0.9559	0.8766	0.8634
recall	0.9559	0.8766	0.8634
f1	0.9559	0.8766	0.8634

Figures:

Model Summary

Model: "sequential"

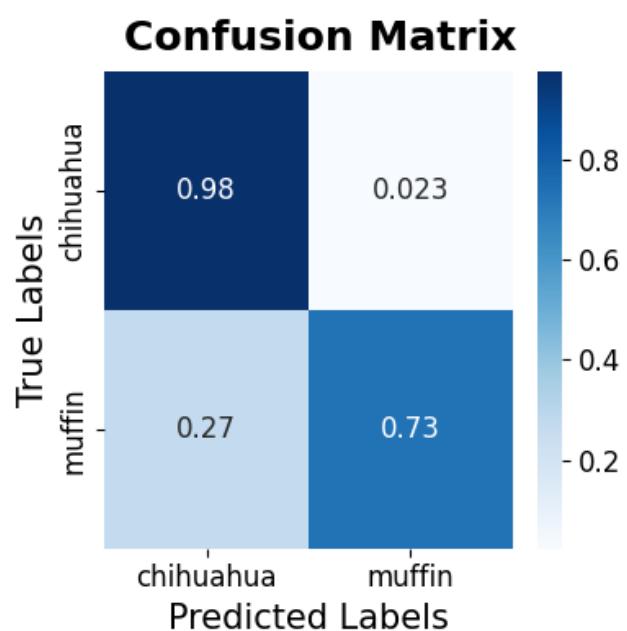
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 122, 122, 128)	18,944
max_pooling2d (MaxPooling2D)	(None, 61, 61, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 24, 24, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 256)	2,359,552
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 8,256,392 (31.50 MB)

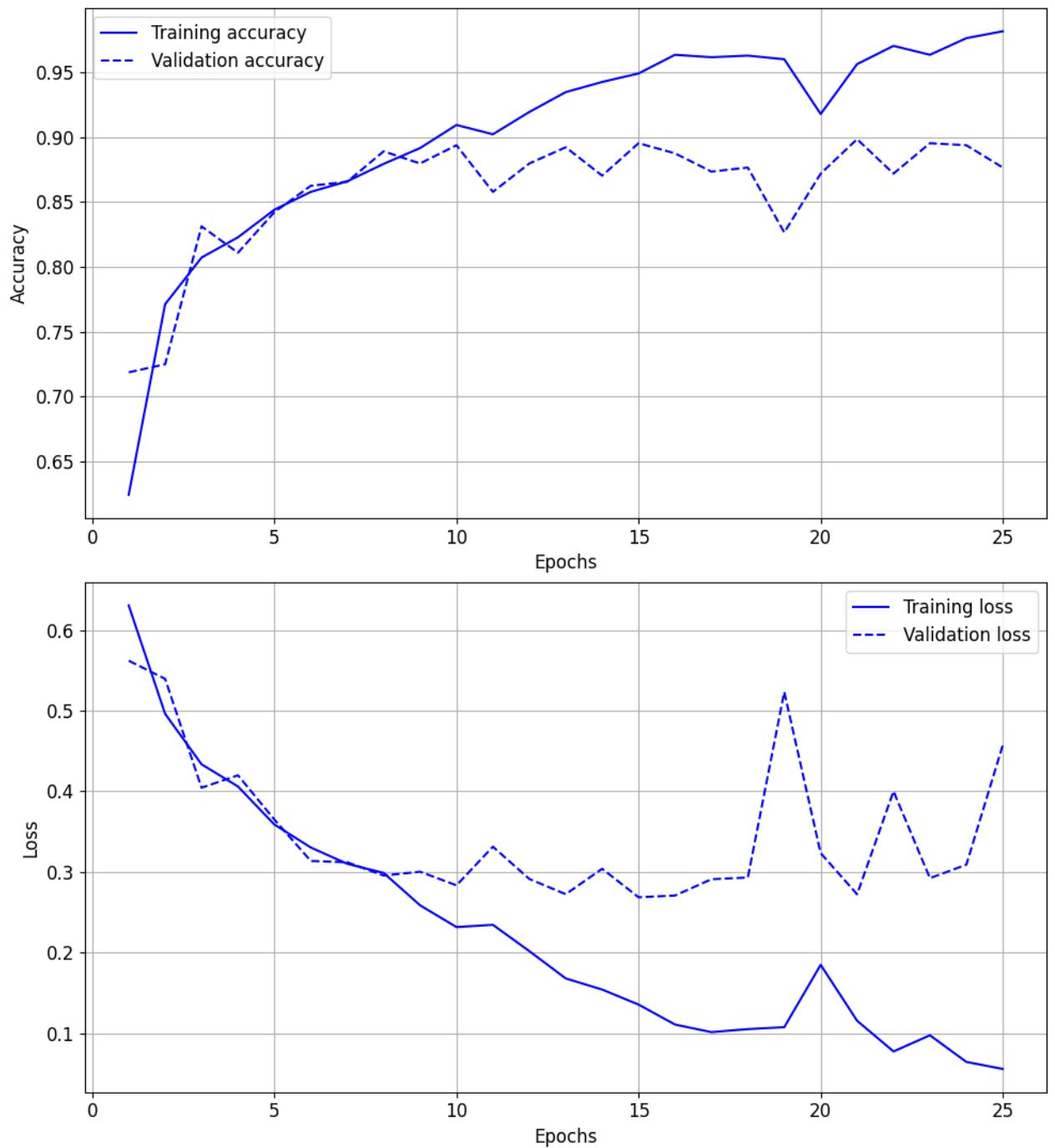
Trainable params: 2,752,130 (10.50 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,504,262 (21.00 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8076	0.9769	0.8843	477
muffin	0.9652	0.7332	0.8333	416
micro avg	0.8634	0.8634	0.8634	893
macro avg	0.8864	0.8551	0.8588	893
weighted avg	0.8810	0.8634	0.8605	893
samples avg	0.8634	0.8634	0.8634	893

trial_65

- *Start Time:* 2024-10-20 12:10:03
- *Duration:* 29.140
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	32
kernel_size2	5
dense_units	128
dropout_rate	0.15819561694140055
learning_rate	0.00011011998450543897

Evaluation Metrics:

	train	val	test
accuracy	0.8928	0.8781	0.8634
precision	0.8928	0.8781	0.8634
recall	0.8928	0.8781	0.8634
f1	0.8928	0.8781	0.8634

Figures:

Model Summary

Model: "sequential"

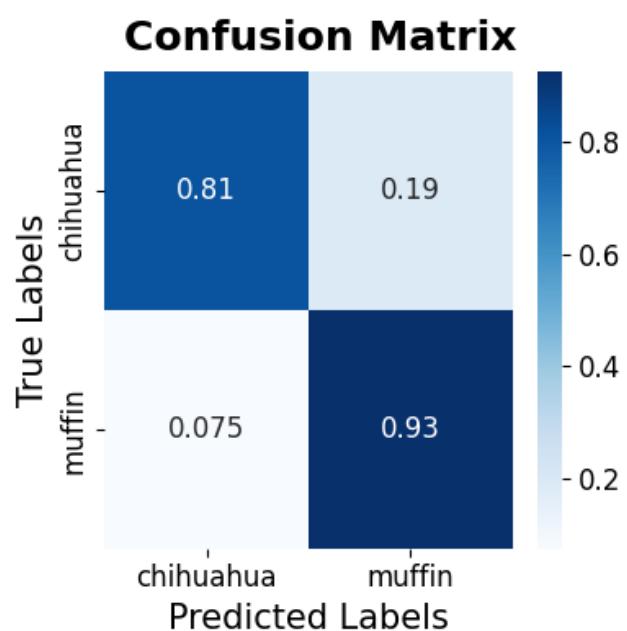
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 32)	102,432
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 32)	0
conv2d_2 (Conv2D)	(None, 25, 25, 32)	25,632
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 32)	0
flatten (Flatten)	(None, 4608)	0
dense (Dense)	(None, 128)	589,952
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 2,215,112 (8.45 MB)

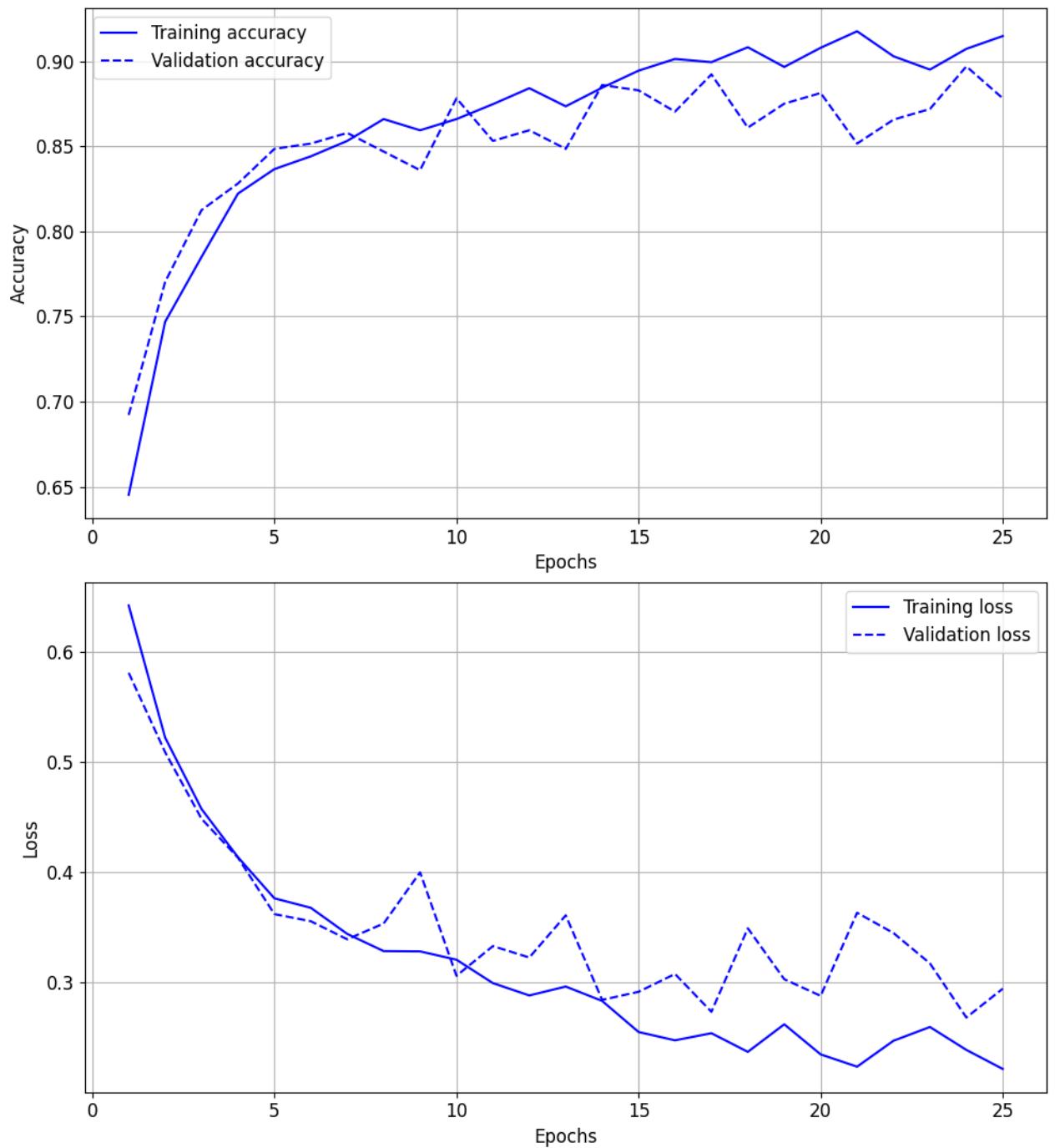
Trainable params: 738,370 (2.82 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 1,476,742 (5.63 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9257	0.8092	0.8635	477
muffin	0.8088	0.9255	0.8632	416
micro avg	0.8634	0.8634	0.8634	893
macro avg	0.8672	0.8674	0.8634	893
weighted avg	0.8712	0.8634	0.8634	893
samples avg	0.8634	0.8634	0.8634	893

trial_81

- *Start Time:* 2024-10-20 12:18:05
- *Duration:* 40.751
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	7
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.2502323196936779
learning_rate	0.0009492963000108242

Evaluation Metrics:

	train	val	test
accuracy	0.9875	0.8391	0.8634
precision	0.9875	0.8391	0.8634
recall	0.9875	0.8391	0.8634
f1	0.9875	0.8391	0.8634

Figures:

Model Summary

Model: "sequential"

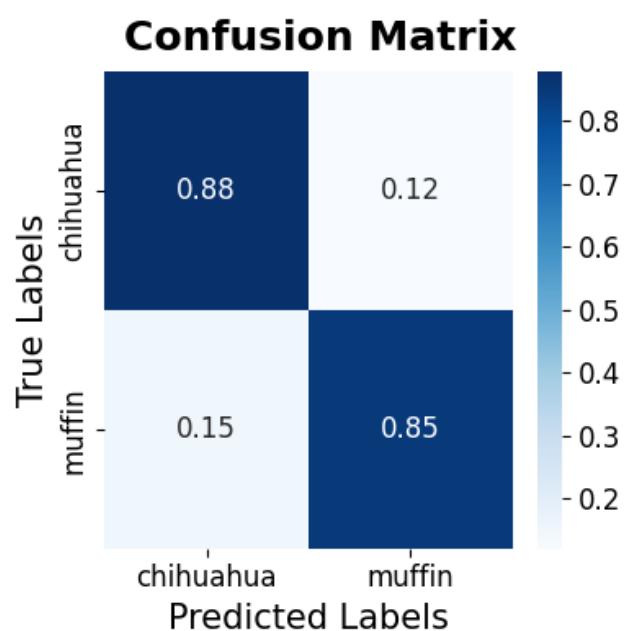
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 122, 122, 128)	18,944
max_pooling2d (MaxPooling2D)	(None, 61, 61, 128)	0
conv2d_1 (Conv2D)	(None, 55, 55, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 27, 27, 64)	0
conv2d_2 (Conv2D)	(None, 21, 21, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 10, 10, 64)	0
flatten (Flatten)	(None, 6400)	0
dense (Dense)	(None, 256)	1,638,656
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 6,978,440 (26.62 MB)

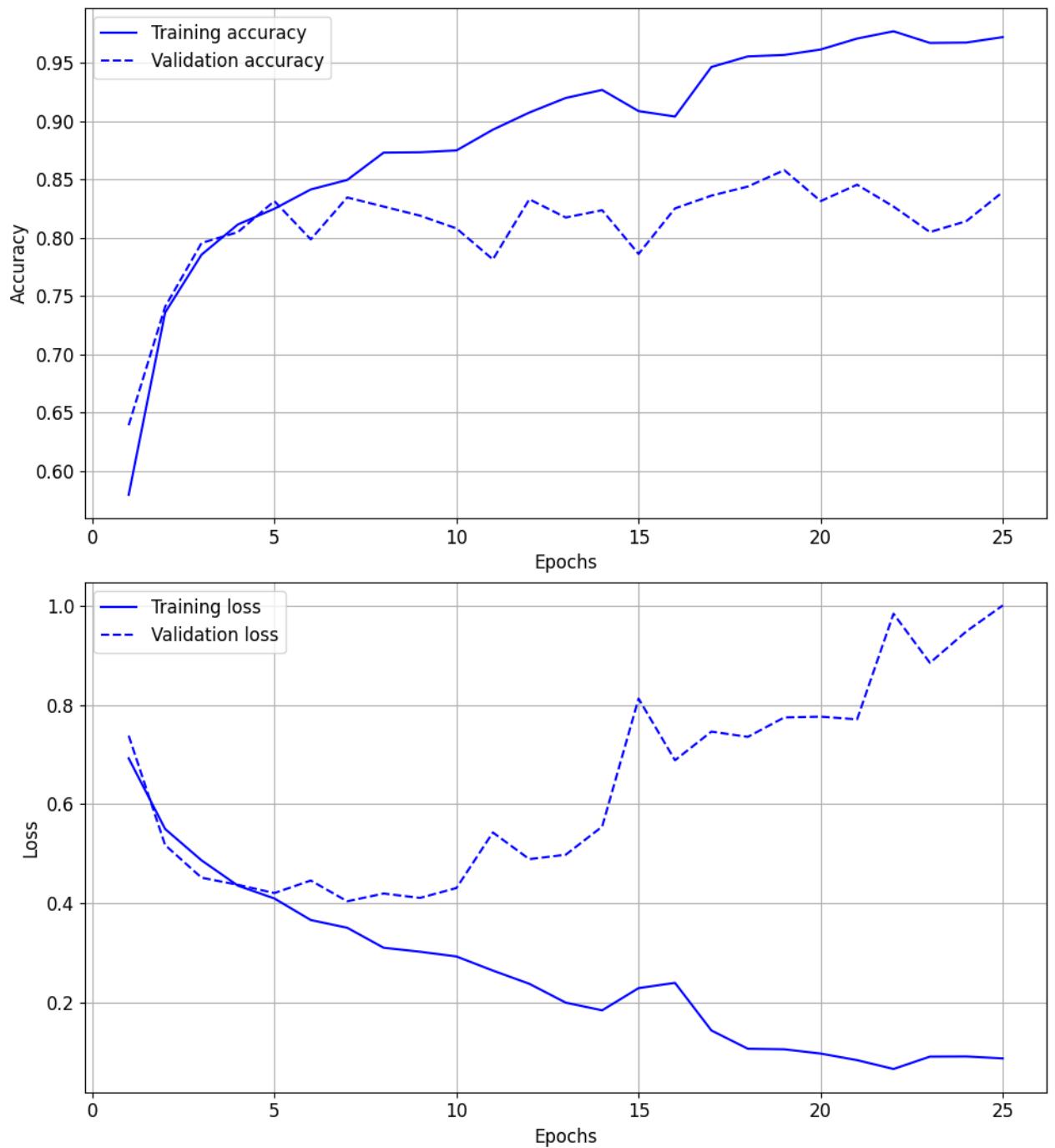
Trainable params: 2,326,146 (8.87 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 4,652,294 (17.75 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8675	0.8784	0.8729	477
muffin	0.8585	0.8462	0.8523	416
micro avg	0.8634	0.8634	0.8634	893
macro avg	0.8630	0.8623	0.8626	893
weighted avg	0.8633	0.8634	0.8633	893
samples avg	0.8634	0.8634	0.8634	893

trial_22

- *Start Time:* 2024-10-20 11:47:30
- *Duration:* 23.088
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	32
kernel_size2	3
dense_units	256
dropout_rate	0.014798162213735089
learning_rate	1.9809353557066022e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8772	0.8687	0.8611
precision	0.8772	0.8687	0.8611
recall	0.8772	0.8687	0.8611
f1	0.8772	0.8687	0.8611

Figures:

Model Summary

Model: "sequential"

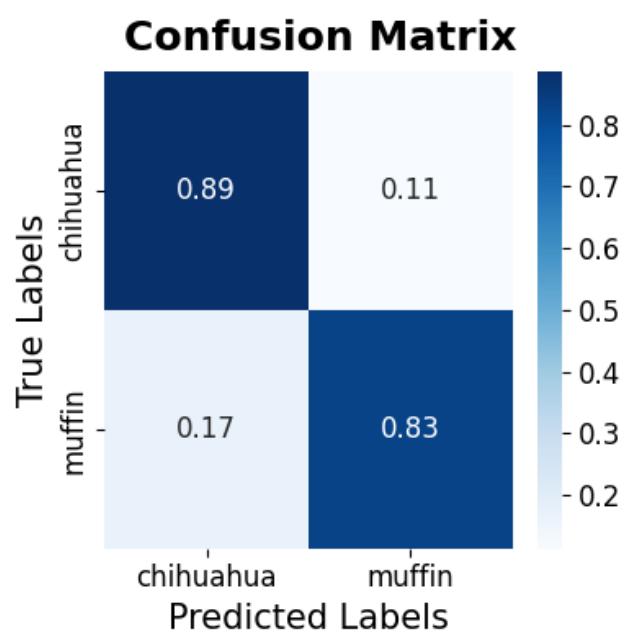
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 61, 61, 32)	36,896
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 32)	0
conv2d_2 (Conv2D)	(None, 28, 28, 32)	9,248
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 32)	0
flatten (Flatten)	(None, 6272)	0
dense (Dense)	(None, 256)	1,605,888
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 5,165,768 (19.71 MB)

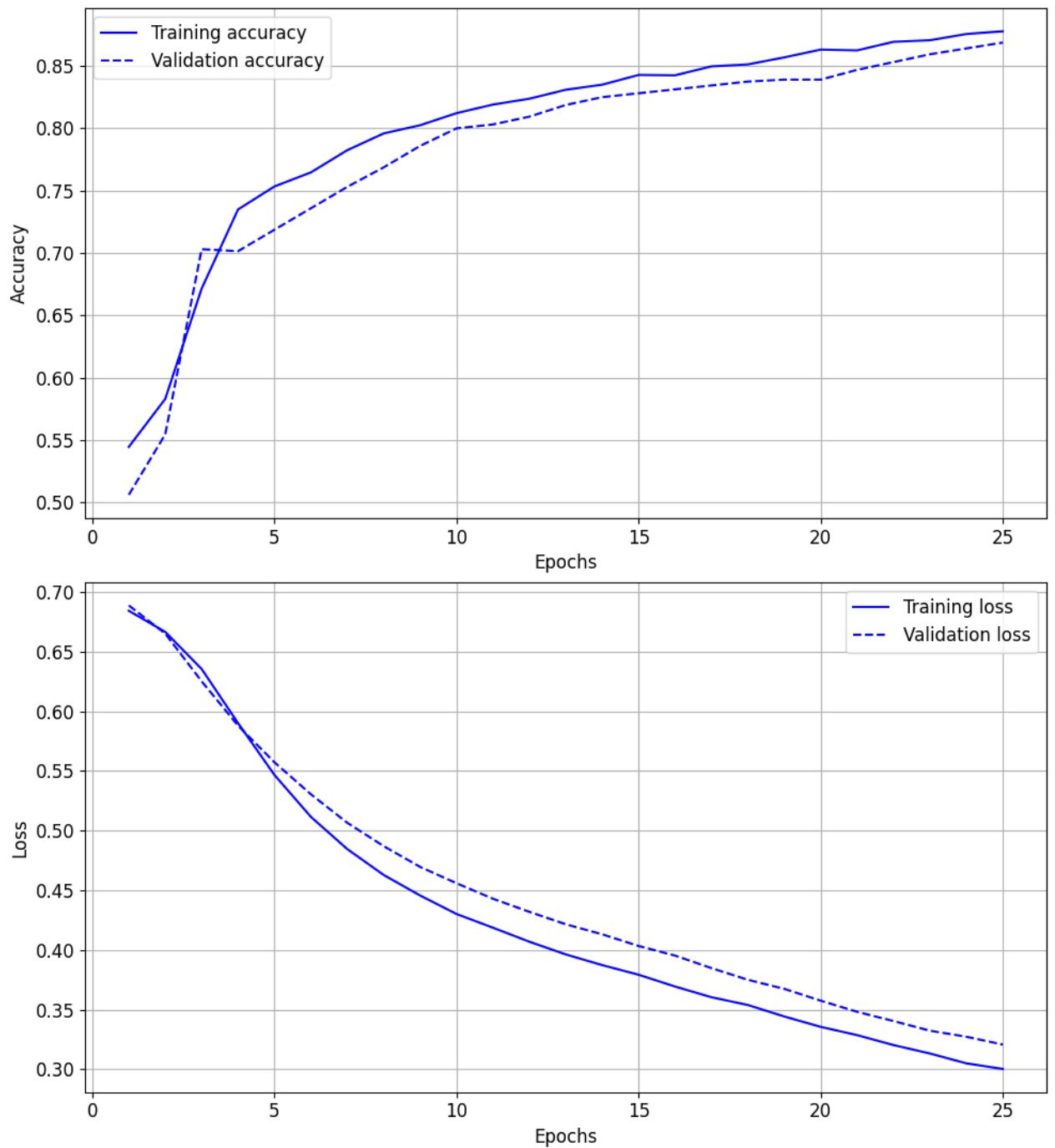
Trainable params: 1,721,922 (6.57 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,443,846 (13.14 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8580	0.8868	0.8722	477
muffin	0.8650	0.8317	0.8480	416
micro avg	0.8611	0.8611	0.8611	893
macro avg	0.8615	0.8593	0.8601	893
weighted avg	0.8613	0.8611	0.8609	893
samples avg	0.8611	0.8611	0.8611	893

trial_91

- *Start Time:* 2024-10-20 12:23:45
- *Duration:* 33.285
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	256
dropout_rate	0.06368166584210488
learning_rate	7.019192367553769e-05

Evaluation Metrics:

	train	val	test
accuracy	0.9237	0.8562	0.8611
precision	0.9237	0.8562	0.8611
recall	0.9237	0.8562	0.8611
f1	0.9237	0.8562	0.8611

Figures:

Model Summary

Model: "sequential"

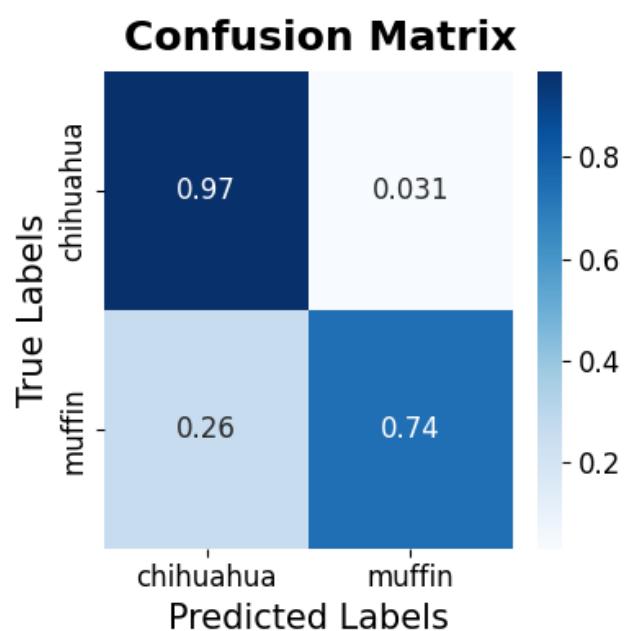
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 256)	1,982,720
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 7,964,552 (30.38 MB)

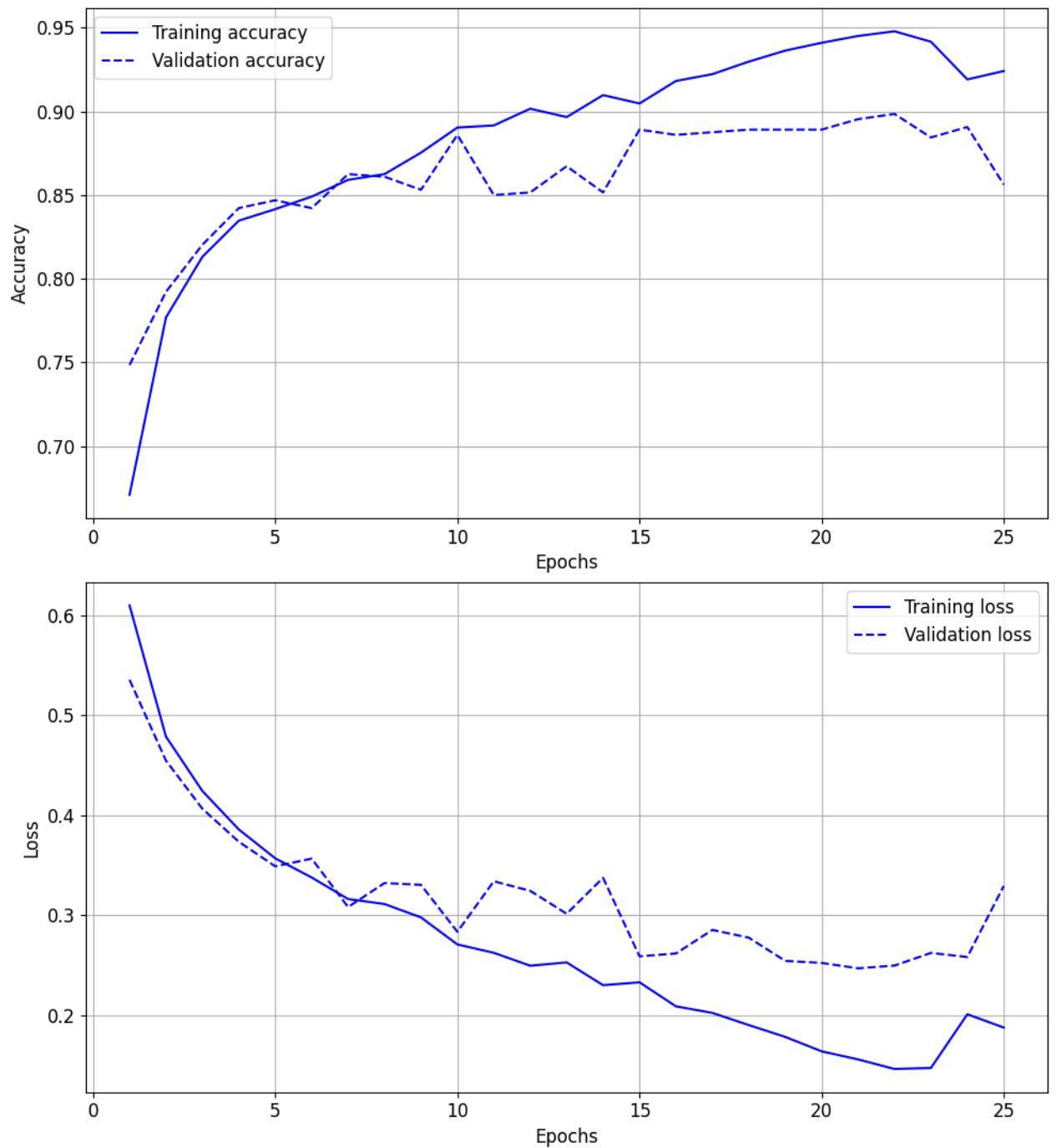
Trainable params: 2,654,850 (10.13 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 5,309,702 (20.25 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8091	0.9686	0.8817	477
muffin	0.9534	0.7380	0.8320	416
micro avg	0.8611	0.8611	0.8611	893
macro avg	0.8813	0.8533	0.8568	893
weighted avg	0.8763	0.8611	0.8585	893
samples avg	0.8611	0.8611	0.8611	893

trial_2

- *Start Time:* 2024-10-20 11:38:38
- *Duration:* 36.979
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	7
units2	16
kernel_size2	7
dense_units	512
dropout_rate	0.18092229453422404
learning_rate	3.026831279306953e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8778	0.8562	0.8600
precision	0.8778	0.8562	0.8600
recall	0.8778	0.8562	0.8600
f1	0.8778	0.8562	0.8600

Figures:

Model Summary

Model: "sequential"

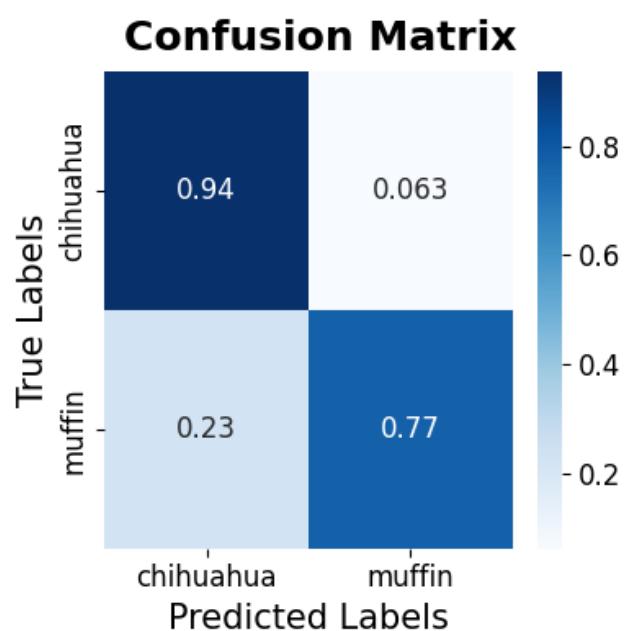
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 122, 122, 128)	18,944
max_pooling2d (MaxPooling2D)	(None, 61, 61, 128)	0
conv2d_1 (Conv2D)	(None, 55, 55, 16)	100,368
max_pooling2d_1 (MaxPooling2D)	(None, 27, 27, 16)	0
conv2d_2 (Conv2D)	(None, 21, 21, 16)	12,560
max_pooling2d_2 (MaxPooling2D)	(None, 10, 10, 16)	0
flatten (Flatten)	(None, 1600)	0
dense (Dense)	(None, 512)	819,712
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 3,645,800 (13.91 MB)

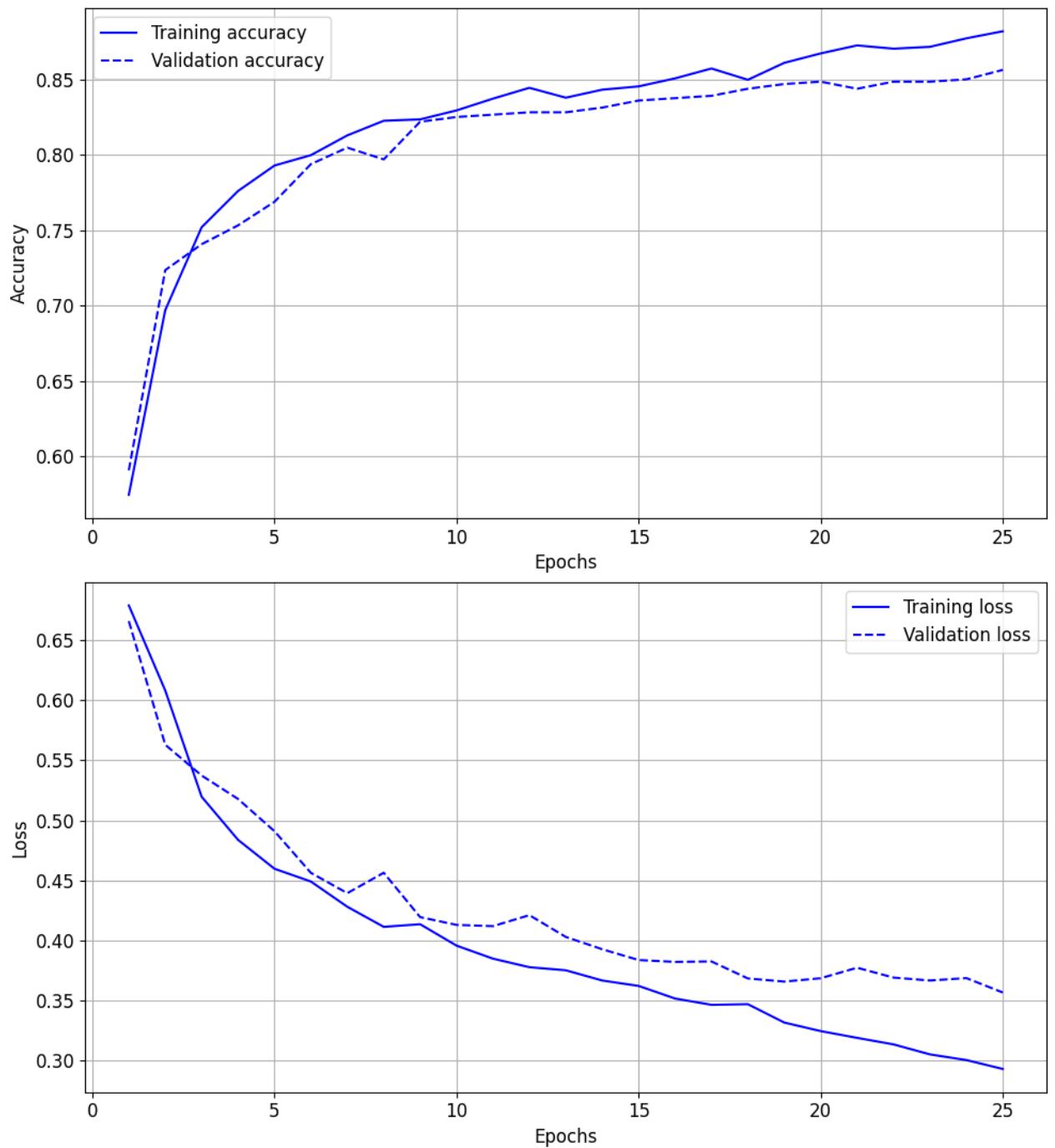
Trainable params: 1,215,266 (4.64 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 2,430,534 (9.27 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8247	0.9371	0.8773	477
muffin	0.9145	0.7716	0.8370	416
micro avg	0.8600	0.8600	0.8600	893
macro avg	0.8696	0.8544	0.8572	893
weighted avg	0.8666	0.8600	0.8586	893
samples avg	0.8600	0.8600	0.8600	893

trial_21

- *Start Time:* 2024-10-20 11:47:04
- *Duration:* 25.170
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	3
dense_units	256
dropout_rate	0.23707336375983296
learning_rate	1.0037508081534541e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8631	0.8469	0.8511
precision	0.8631	0.8469	0.8511
recall	0.8631	0.8469	0.8511
f1	0.8631	0.8469	0.8511

Figures:

Model Summary

Model: "sequential"

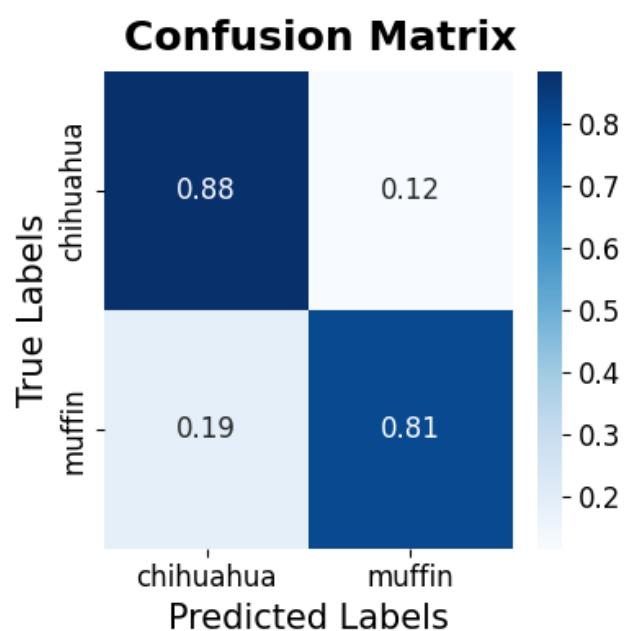
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 61, 61, 64)	73,792
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 64)	0
conv2d_2 (Conv2D)	(None, 28, 28, 64)	36,928
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 64)	0
flatten (Flatten)	(None, 12544)	0
dense (Dense)	(None, 256)	3,211,520
dropout (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 256)	65,792
dropout_1 (Dropout)	(None, 256)	0
dense_2 (Dense)	(None, 2)	514

Total params: 10,176,392 (38.82 MB)

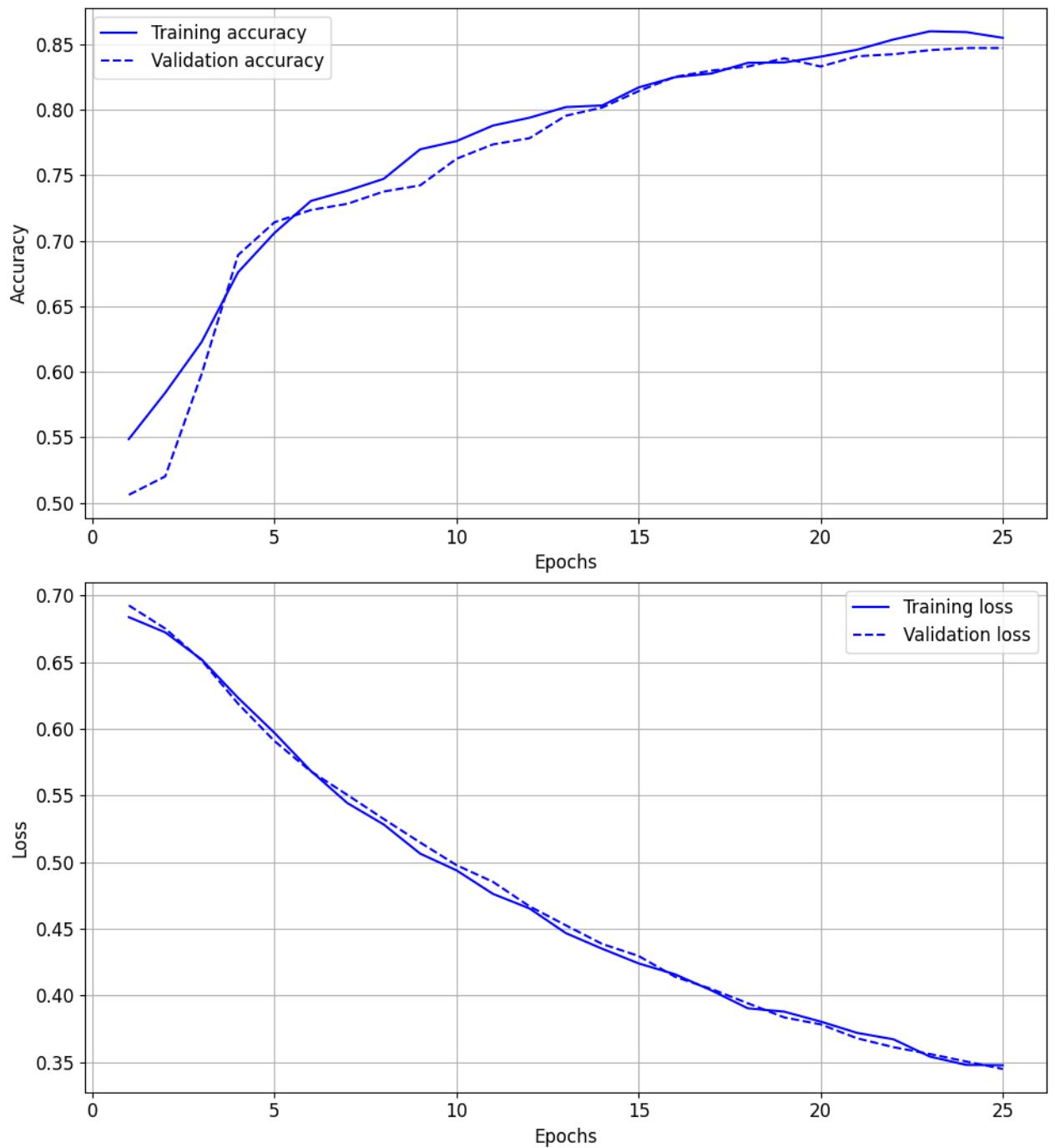
Trainable params: 3,392,130 (12.94 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 6,784,262 (25.88 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8440	0.8847	0.8639	477
muffin	0.8601	0.8125	0.8356	416
micro avg	0.8511	0.8511	0.8511	893
macro avg	0.8520	0.8486	0.8497	893
weighted avg	0.8515	0.8511	0.8507	893
samples avg	0.8511	0.8511	0.8511	893

trial_45

- *Start Time:* 2024-10-20 11:58:45
- *Duration:* 32.949
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.18650058669267355
learning_rate	9.305579567950038e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8741	0.8562	0.8499
precision	0.8741	0.8562	0.8499
recall	0.8741	0.8562	0.8499
f1	0.8741	0.8562	0.8499

Figures:

Model Summary

Model: "sequential"

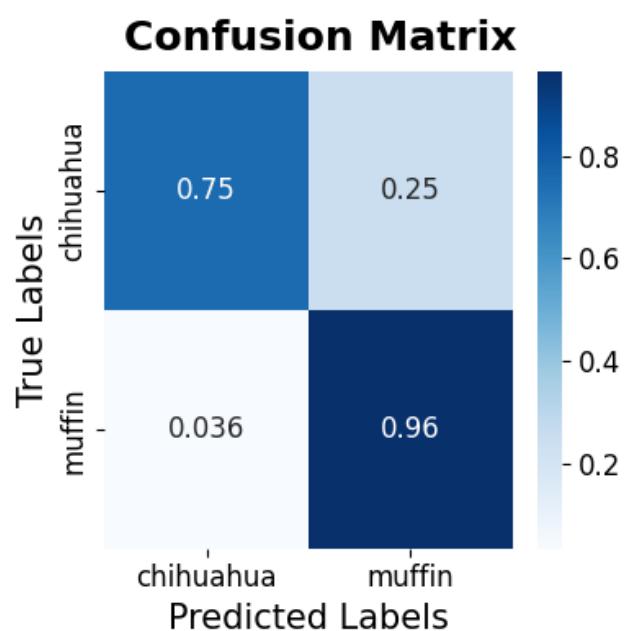
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

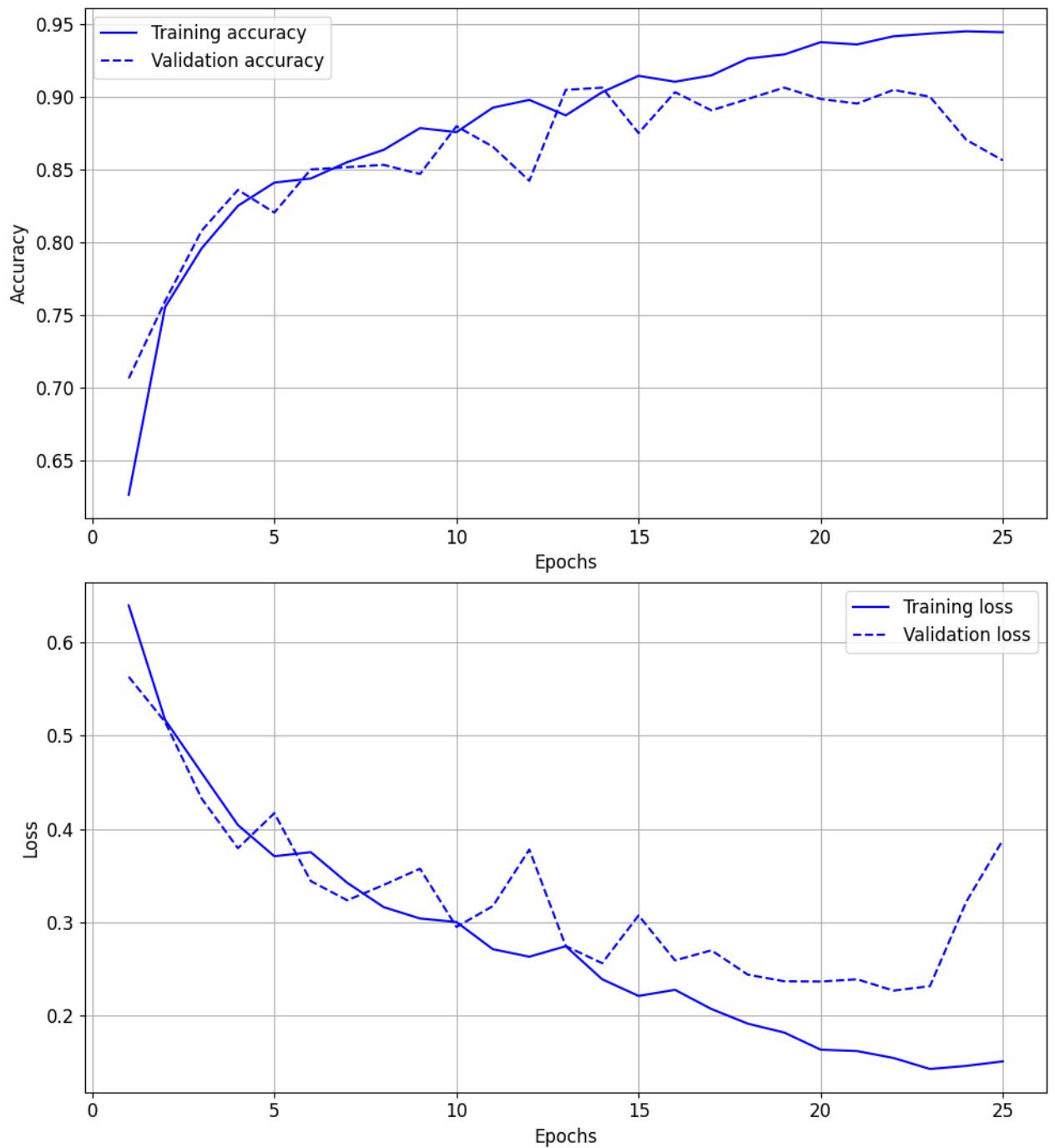
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.9598	0.7505	0.8424	477
muffin	0.7712	0.9639	0.8568	416
micro avg	0.8499	0.8499	0.8499	893
macro avg	0.8655	0.8572	0.8496	893
weighted avg	0.8719	0.8499	0.8491	893
samples avg	0.8499	0.8499	0.8499	893

trial_14

- *Start Time:* 2024-10-20 11:44:22
- *Duration:* 18.956
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	5
units2	16
kernel_size2	5
dense_units	512
dropout_rate	0.39398113914126903
learning_rate	1.4468742936443877e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8497	0.8313	0.8466
precision	0.8497	0.8313	0.8466
recall	0.8497	0.8313	0.8466
f1	0.8497	0.8312	0.8466

Figures:

Model Summary

Model: "sequential"

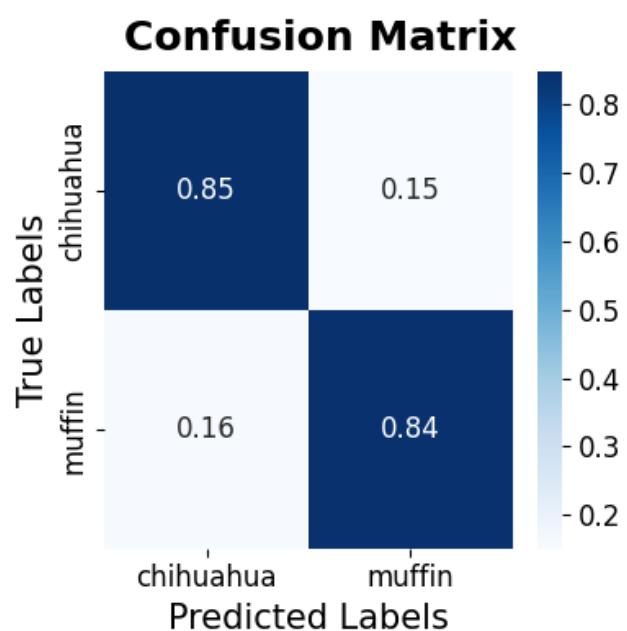
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 64)	4,864
max_pooling2d (MaxPooling2D)	(None, 62, 62, 64)	0
conv2d_1 (Conv2D)	(None, 58, 58, 16)	25,616
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 16)	0
conv2d_2 (Conv2D)	(None, 25, 25, 16)	6,416
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 16)	0
flatten (Flatten)	(None, 2304)	0
dense (Dense)	(None, 512)	1,180,160
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 4,442,216 (16.95 MB)

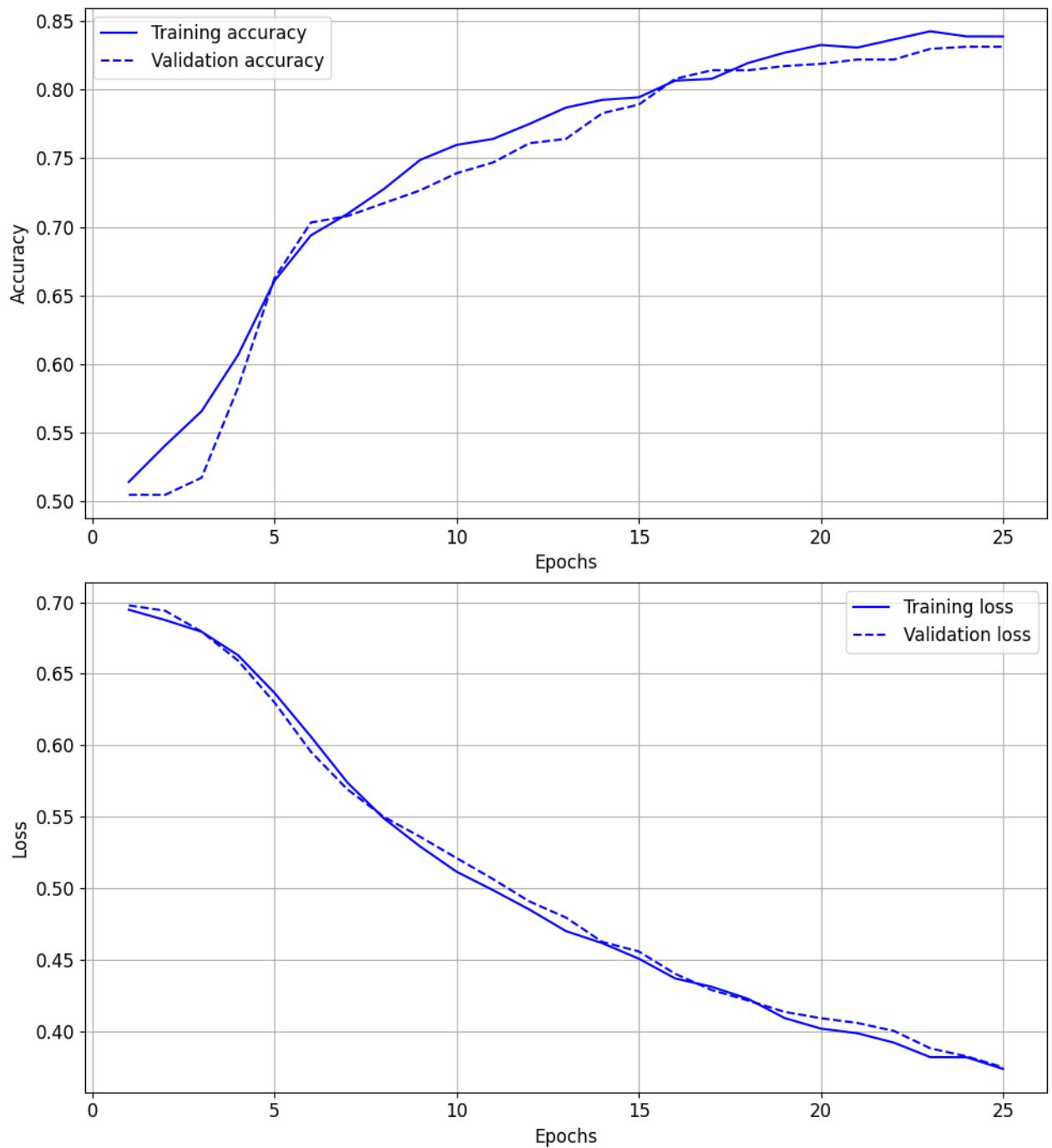
Trainable params: 1,480,738 (5.65 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 2,961,478 (11.30 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8617	0.8491	0.8553	477
muffin	0.8298	0.8438	0.8367	416
micro avg	0.8466	0.8466	0.8466	893
macro avg	0.8457	0.8464	0.8460	893
weighted avg	0.8468	0.8466	0.8467	893
samples avg	0.8466	0.8466	0.8466	893

trial_1

- *Start Time:* 2024-10-20 11:37:59
- *Duration:* 38.794
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	5
dense_units	512
dropout_rate	0.06702517200773794
learning_rate	0.00010873702183533947

Evaluation Metrics:

	train	val	test
accuracy	0.8938	0.8250	0.8309
precision	0.8938	0.8250	0.8309
recall	0.8938	0.8250	0.8309
f1	0.8937	0.8250	0.8309

Figures:

Model Summary

Model: "sequential"

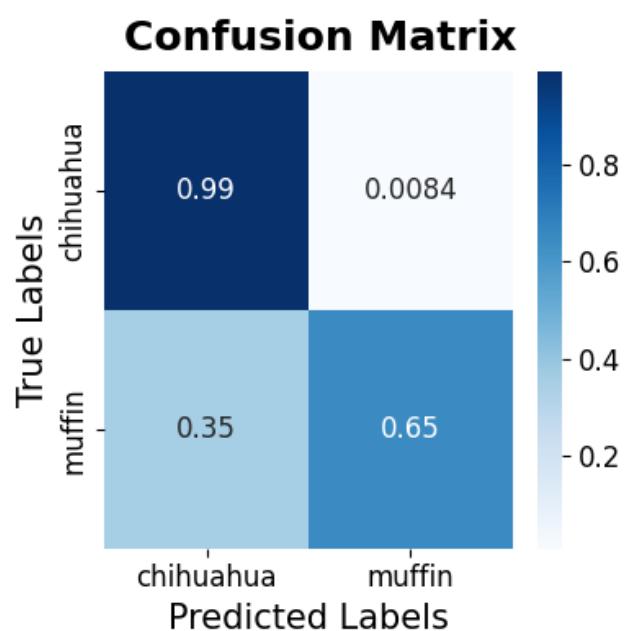
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 59, 59, 64)	204,864
max_pooling2d_1 (MaxPooling2D)	(None, 29, 29, 64)	0
conv2d_2 (Conv2D)	(None, 25, 25, 64)	102,464
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 64)	0
flatten (Flatten)	(None, 9216)	0
dense (Dense)	(None, 512)	4,719,104
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 512)	262,656
dropout_1 (Dropout)	(None, 512)	0
dense_2 (Dense)	(None, 2)	1,026

Total params: 15,881,096 (60.58 MB)

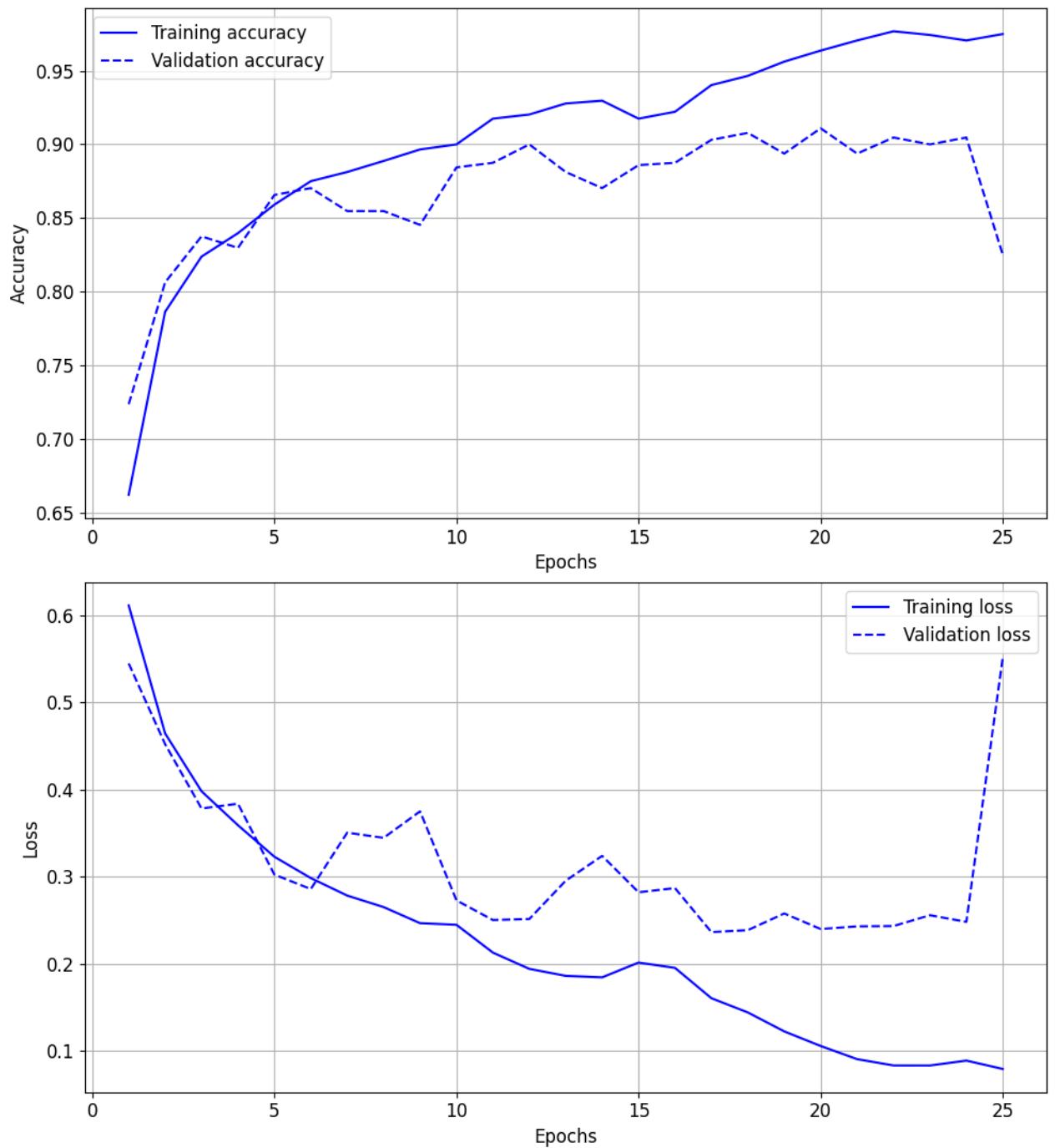
Trainable params: 5,293,698 (20.19 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 10,587,398 (40.39 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.7629	0.9916	0.8624	477
muffin	0.9853	0.6466	0.7808	416
micro avg	0.8309	0.8309	0.8309	893
macro avg	0.8741	0.8191	0.8216	893
weighted avg	0.8665	0.8309	0.8244	893
samples avg	0.8309	0.8309	0.8309	893

trial_95

- *Start Time:* 2024-10-20 12:25:51
- *Duration:* 32.858
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	128
kernel_size1	3
units2	64
kernel_size2	7
dense_units	128
dropout_rate	0.20363599649449604
learning_rate	7.714962942593432e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8844	0.8344	0.8275
precision	0.8844	0.8344	0.8275
recall	0.8844	0.8344	0.8275
f1	0.8844	0.8344	0.8275

Figures:

Model Summary

Model: "sequential"

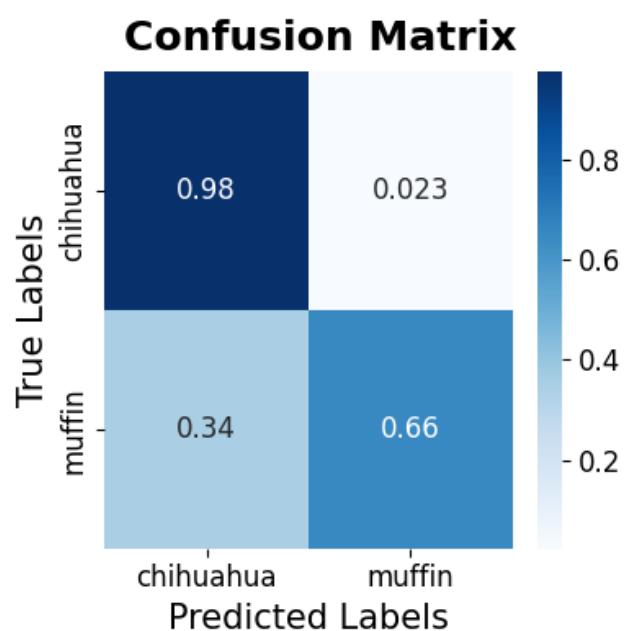
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 128)	3,584
max_pooling2d (MaxPooling2D)	(None, 63, 63, 128)	0
conv2d_1 (Conv2D)	(None, 57, 57, 64)	401,472
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 64)	0
conv2d_2 (Conv2D)	(None, 22, 22, 64)	200,768
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 64)	0
flatten (Flatten)	(None, 7744)	0
dense (Dense)	(None, 128)	991,360
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 4,841,864 (18.47 MB)

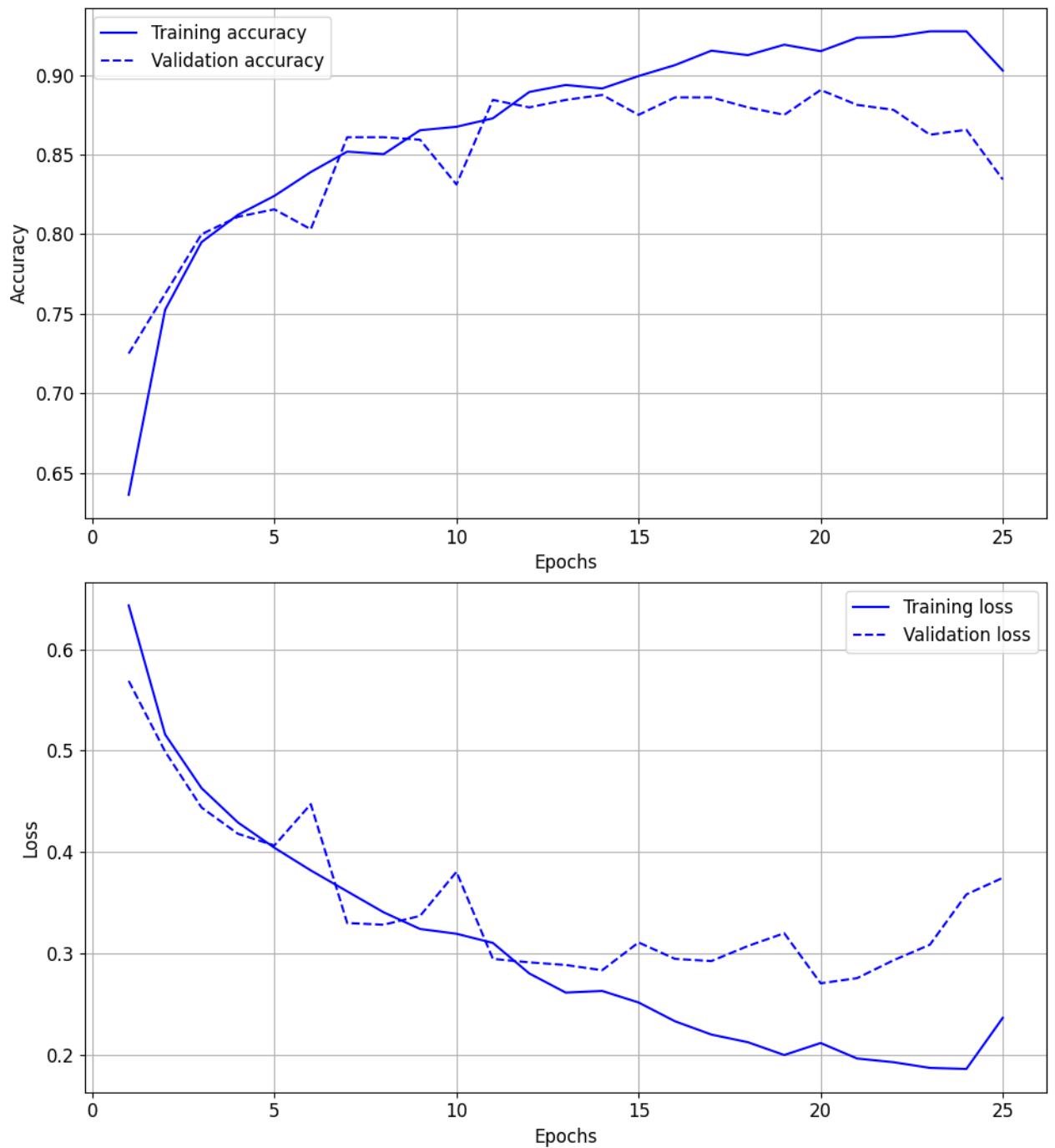
Trainable params: 1,613,954 (6.16 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 3,227,910 (12.31 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.7652	0.9769	0.8582	477
muffin	0.9613	0.6562	0.7800	416
micro avg	0.8275	0.8275	0.8275	893
macro avg	0.8632	0.8166	0.8191	893
weighted avg	0.8565	0.8275	0.8218	893
samples avg	0.8275	0.8275	0.8275	893

trial_11

- *Start Time:* 2024-10-20 11:43:18
- *Duration:* 24.068
- *Directory:* [Link](#)

Hyperparameters:

Hyperparameter	Value
units1	64
kernel_size1	5
units2	32
kernel_size2	7
dense_units	128
dropout_rate	0.48517788342021034
learning_rate	1.0107733227152883e-05

Evaluation Metrics:

	train	val	test
accuracy	0.8197	0.7937	0.8052
precision	0.8197	0.7937	0.8052
recall	0.8197	0.7937	0.8052
f1	0.8197	0.7937	0.8052

Figures:

Model Summary

Model: "sequential"

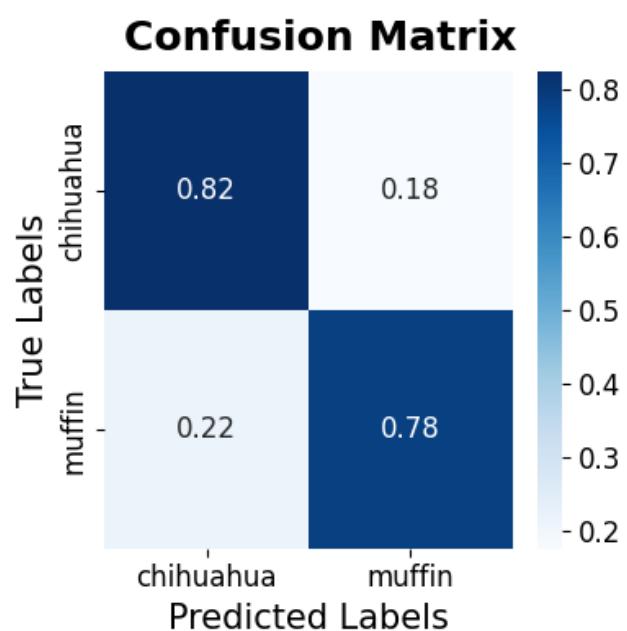
Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 124, 124, 64)	4,864
max_pooling2d (MaxPooling2D)	(None, 62, 62, 64)	0
conv2d_1 (Conv2D)	(None, 56, 56, 32)	100,384
max_pooling2d_1 (MaxPooling2D)	(None, 28, 28, 32)	0
conv2d_2 (Conv2D)	(None, 22, 22, 32)	50,208
max_pooling2d_2 (MaxPooling2D)	(None, 11, 11, 32)	0
flatten (Flatten)	(None, 3872)	0
dense (Dense)	(None, 128)	495,744
dropout (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 128)	16,512
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 2)	258

Total params: 2,003,912 (7.64 MB)

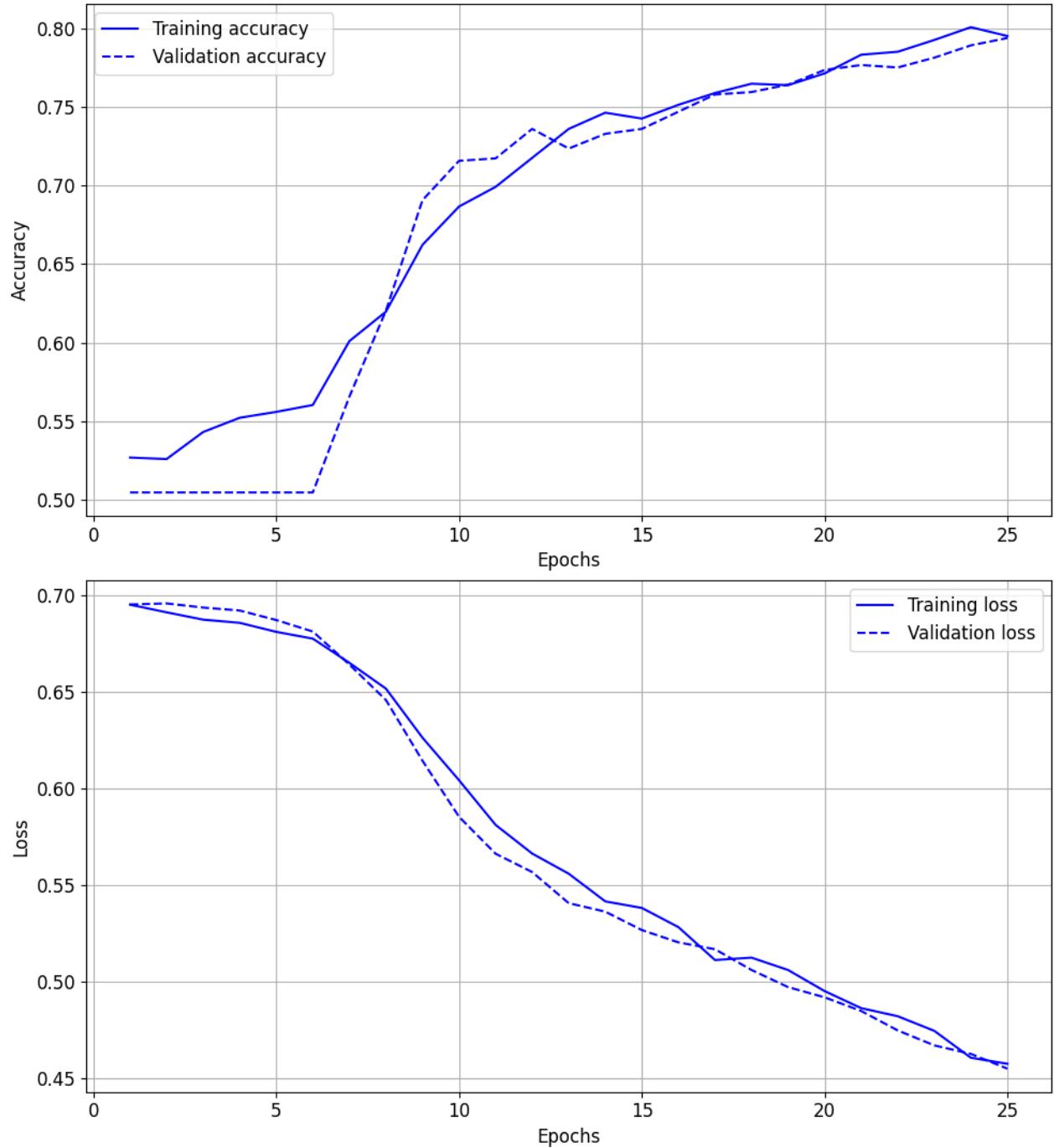
Trainable params: 667,970 (2.55 MB)

Non-trainable params: 0 (0.00 B)

Optimizer params: 1,335,942 (5.10 MB)



Training History



Detailed Report of Test Set:

	precision	recall	f1-score	support
chihuahua	0.8137	0.8239	0.8187	477
muffin	0.7951	0.7837	0.7893	416
micro avg	0.8052	0.8052	0.8052	893
macro avg	0.8044	0.8038	0.8040	893
weighted avg	0.8050	0.8052	0.8051	893
samples avg	0.8052	0.8052	0.8052	893