

Google Bert

F1 Scores:

omittable: 0.9533
measure: 0.9195
extension: 0.7711
atelectasis: 0.5185
satellite: 0.7407
lymphadenopathy: 0.9487
pleural: 0.8732
distant: 0.7429
Overall: 0.8775

F2 Scores:

omittable: 0.9572
measure: 0.9132
extension: 0.7339
atelectasis: 0.4023
satellite: 0.6944
lymphadenopathy: 0.9487
pleural: 0.8115
distant: 0.6952
Overall: 0.8518

Classification Report:

	precision	recall	f1-score	support
omittable	0.95	0.96	0.95	149
measure	0.93	0.91	0.92	88
extension	0.84	0.71	0.77	45
atelectasis	1.00	0.35	0.52	20
satellite	0.83	0.67	0.74	30
lymphadenopathy	0.95	0.95	0.95	39
pleural	1.00	0.78	0.87	40
distant	0.84	0.67	0.74	39
micro avg	0.92	0.84	0.88	450
macro avg	0.92	0.75	0.81	450
weighted avg	0.92	0.84	0.87	450
samples avg	0.89	0.86	0.87	450



Freeze first 6 layers

F1 Scores:

omittable: 0.9360

measure: 0.9157

extension: 0.8539

atelectasis: 0.8000

satellite: 0.7547

lymphadenopathy: 0.9487

pleural: 0.9041

distant: 0.8116

Overall: 0.8953

F2 Scores:

omittable: 0.9341

measure: 0.8837

extension: 0.8482

atelectasis: 0.7368

satellite: 0.6993

lymphadenopathy: 0.9487

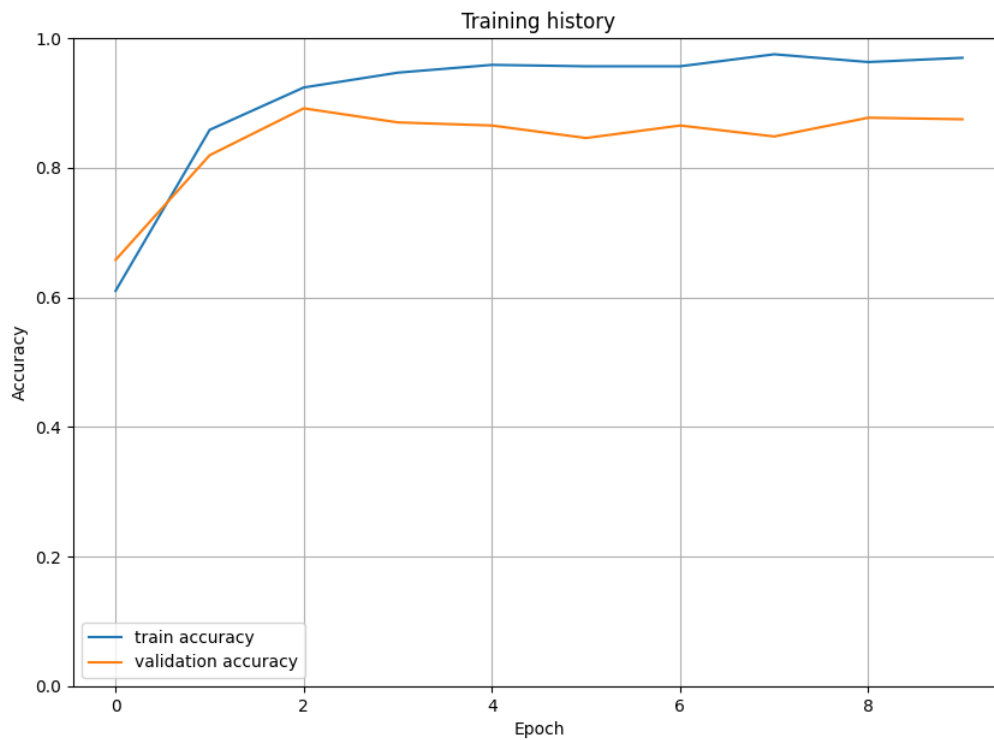
pleural: 0.8549

distant: 0.7527

Overall: 0.8710

Classification Report:

	precision	recall	f1-score	support
omittable	0.94	0.93	0.94	149
measure	0.97	0.86	0.92	88
extension	0.86	0.84	0.85	45
atelectasis	0.93	0.70	0.80	20
satellite	0.87	0.67	0.75	30
lymphadenopathy	0.95	0.95	0.95	39
pleural	1.00	0.82	0.90	40
distant	0.93	0.72	0.81	39
micro avg	0.94	0.86	0.90	450
macro avg	0.93	0.81	0.87	450
weighted avg	0.94	0.86	0.89	450
samples avg	0.89	0.87	0.88	450



F1 Scores:

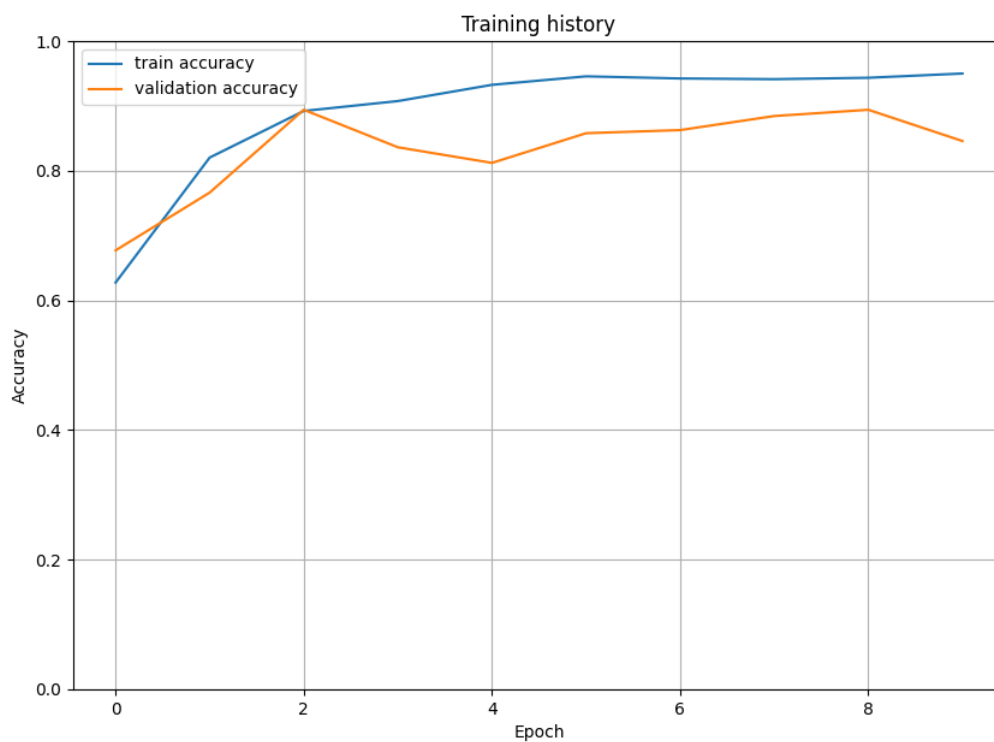
omittable: 0.9502
measure: 0.9480
extension: 0.7857
atelectasis: 0.5143
satellite: 0.6792
lymphadenopathy: 0.9048
pleural: 0.9189
distant: 0.8462
Overall: 0.8844

F2 Scores:

omittable: 0.9559
measure: 0.9382
extension: 0.7534
atelectasis: 0.4737
satellite: 0.6294
lymphadenopathy: 0.9453
pleural: 0.8763
distant: 0.8462
Overall: 0.8737

Classification Report:

	precision	recall	f1-score	support
omittable	0.94	0.96	0.95	149
measure	0.96	0.93	0.95	88
extension	0.85	0.73	0.79	45
atelectasis	0.60	0.45	0.51	20
satellite	0.78	0.60	0.68	30
lymphadenopathy	0.84	0.97	0.90	39
pleural	1.00	0.85	0.92	40
distant	0.85	0.85	0.85	39
micro avg	0.90	0.87	0.88	450
macro avg	0.85	0.79	0.82	450
weighted avg	0.90	0.87	0.88	450
samples avg	0.90	0.90	0.89	450



Freeze first 6 layers

F1 Scores:

omittable: 0.9502

measure: 0.9480

extension: 0.7857

atelectasis: 0.5143

satellite: 0.6792

lymphadenopathy: 0.9048

pleural: 0.9189

distant: 0.8462

Overall: 0.8844

F2 Scores:

omittable: 0.9559

measure: 0.9382

extension: 0.7534

atelectasis: 0.4737

satellite: 0.6294

lymphadenopathy: 0.9453

pleural: 0.8763

distant: 0.8462

Overall: 0.8737

Classification Report:

	precision	recall	f1-score	support
omittable	0.94	0.96	0.95	149
measure	0.96	0.93	0.95	88
extension	0.85	0.73	0.79	45
atelectasis	0.60	0.45	0.51	20
satellite	0.78	0.60	0.68	30
lymphadenopathy	0.84	0.97	0.90	39
pleural	1.00	0.85	0.92	40
distant	0.85	0.85	0.85	39
micro avg	0.90	0.87	0.88	450
macro avg	0.85	0.79	0.82	450
weighted avg	0.90	0.87	0.88	450
samples avg	0.90	0.90	0.89	450



F1 Scores:

omittable: 0.9265
measure: 0.9059
extension: 0.8537
atelectasis: 0.9231
satellite: 0.7857
lymphadenopathy: 0.9487
pleural: 0.8732
distant: 0.8219
Overall: 0.8957

F2 Scores:

omittable: 0.9539
measure: 0.8871
extension: 0.8065
atelectasis: 0.9091
satellite: 0.7534
lymphadenopathy: 0.9487
pleural: 0.8115
distant: 0.7895
Overall: 0.8849

Classification Report:

	precision	recall	f1-score	support
omittable	0.88	0.97	0.93	149
measure	0.94	0.88	0.91	88
extension	0.95	0.78	0.85	45
atelectasis	0.95	0.90	0.92	20
satellite	0.85	0.73	0.79	30
lymphadenopathy	0.95	0.95	0.95	39
pleural	1.00	0.78	0.87	40
distant	0.88	0.77	0.82	39
micro avg	0.91	0.88	0.90	450
macro avg	0.92	0.84	0.88	450
weighted avg	0.92	0.88	0.89	450
samples avg	0.92	0.90	0.90	450



F1 Scores:

omittable: 0.9385

measure: 0.9070

extension: 0.8409

atelectasis: 0.7500

satellite: 0.8077

lymphadenopathy: 0.9367

pleural: 0.8889

distant: 0.8611

Overall: 0.8973

F2 Scores:

omittable: 0.9590

measure: 0.8945

extension: 0.8296

atelectasis: 0.6522

satellite: 0.7394

lymphadenopathy: 0.9439

pleural: 0.8333

distant: 0.8201

Overall: 0.8827

Classification Report:

	precision	recall	f1-score	support
omittable	0.91	0.97	0.94	149
measure	0.93	0.89	0.91	88
extension	0.86	0.82	0.84	45
atelectasis	1.00	0.60	0.75	20
satellite	0.95	0.70	0.81	30
lymphadenopathy	0.93	0.95	0.94	39
pleural	1.00	0.80	0.89	40
distant	0.94	0.79	0.86	39
micro avg	0.92	0.87	0.90	450
macro avg	0.94	0.82	0.87	450
weighted avg	0.93	0.87	0.89	450
samples avg	0.91	0.89	0.90	450



F1 Scores:

omittable: 0.9527

measure: 0.8914

extension: 0.7805

atelectasis: 0.6809

satellite: 0.6780

lymphadenopathy: 0.9487

pleural: 0.8732

distant: 0.8286

Overall: 0.8747

F2 Scores:

omittable: 0.9489

measure: 0.8884

extension: 0.7373

atelectasis: 0.7477

satellite: 0.6711

lymphadenopathy: 0.9487

pleural: 0.8115

distant: 0.7754

Overall: 0.8618

Classification Report:

	precision	recall	f1-score	support
omittable	0.96	0.95	0.95	149
measure	0.90	0.89	0.89	88
extension	0.86	0.71	0.78	45
atelectasis	0.59	0.80	0.68	20
satellite	0.69	0.67	0.68	30
lymphadenopathy	0.95	0.95	0.95	39
pleural	1.00	0.78	0.87	40
distant	0.94	0.74	0.83	39
micro avg	0.90	0.85	0.87	450
macro avg	0.86	0.81	0.83	450
weighted avg	0.90	0.85	0.87	450
samples avg	0.90	0.88	0.89	450

