|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 모델 | 크기 | 전처리 | learning\_rate | epochs | optimizer | dropout | **모델 개요** | **loss, acc 그래프** | **test**  **loss, acc** |
| 120 dataset > 26 test | | | | | | | | | |
| conv2d\_1 | 112\*112\*3 | /255 |  | 10 | Adam |  |  |  | [1.0146 0.6707] |
| conv2d\_2 | 112\*112\*3 | /255 |  | 30 | Adam |  |  |  | [0.7242 0.7754] |
| conv2d\_3 | 112\*112\*3 | /255 |  | 50 | Adam |  |  |  | [0.4251 0.8764] |
| conv2d\_4 | 112\*112\*3 | /255 |  | 10 | Nadam |  |  |  | [1.0761  0.3249] |
| conv2d\_5 | 112\*112\*3 | /255 |  | 30 | Nadam |  |  |  | [0.5675 0.8213] |
| conv2d\_6 | 112\*112\*3 | /255 |  | 50 | Nadam |  |  |  | [0.2200 0.9251] |
| conv2d\_7 | 112\*112\*3 | /255 |  | 50 | Adamax |  |  |  | [1.7709 0.7035] |
| 760 dataset > 26 test | | | | | | | | | |
| conv2d\_8 | 112\*112\*3 | /255 |  | 3 | Nadam |  |  |  | [3.4329  0.2311] |
| conv2d\_9 | 112\*112\*3 | /255 |  | 30 | Nadam |  |  |  | [3.4235  0.4599] |
| conv2d\_10 | 112\*112\*3 | /255 |  | 1 | RMSprop |  |  |  | [4.8841 0.0735] |
| conv2d\_11 | 112\*112\*3 | /255 |  | 10 | RMSprop |  |  |  | [3.0249 0.5208] |
| conv2d\_12 | 112\*112\*3 | /255 |  | 30 | RMSprop |  |  |  | [4.9141  0.3541] |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| 900 dataset > 899 train 1 test | | | | | | | | | |
| 모델1 | 112\*112\*16\*3 | /255 | 1e-4 | 1 | RMSprop | 0.5 |  |  | [0.592 0.9615] |
| 모델2 | 112\*112\*16\*3 | /255 | 1e-4 | 3 | RMSprop | 0.5 |  |  | [0.1627 0.9615] |
| 모델3 | 112\*112\*16\*3 | /255 | 1e-5 | 1 | RMSprop | 0.5 |  |  | [4.3475 0.5 ] |
| 모델4 | 112\*112\*16\*3 | /255 | 1e-4 | 1 | Adam | 0.5 |  |  | [0.5813 0.9615] |
| 모델\_1 | 3\*16\*112\*112 | /255 | 1e-5 | 1 | Adam | 0.5 |  |  | [5.5328 0.0385] |
| 모델\_2 | 3\*16\*112\*112 | /255 | 1e-4 | 1 | Adam | 0.5 |  |  | [3.2582 0.0385] |
|  |  |  |  |  |  |  |  |  |  |
| 900 dataset > 810 train 90 test - 코드 더 손 봐야함 | | | | | | | | | |
| 모델1\_1 | 112\*112\*16\*3 | /255 | 1e-4 | 1 | RMSprop | 0.5 |  |  | [3.2419 0.2974] |
| 모델1\_2 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 |  |  | [3.5166 0.4226] |
|  |  |  |  |  |  |  |  |  |  |
| 900 dataset > 810 train 3 test, early stopping 구현 | | | | | | | | | |
| 모델2\_1 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | Adam | 0.5 | 0.01, 50 | 저장 안함 | [2.6105 0.6282] |
| 모델2\_2 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | Adam | 0.5 | 0.01, 30 |  | [3.1165 0.3846] |
| 모델2\_3 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | Adam | 0.5 | 0.01, 40 |  | [2.4307 0.6026] |
| 모델2\_4 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | Adam | 0.5 | 0.001, 30 |  | [2.8025 0.5 ] |
| 모델2\_5 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | Adam | 0.5 | 0.001, 40 |  | [2.0656 0.7051] |
| 모델2\_6 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.001, 40 |  | [2.614 0.641] |
| 모델2\_7 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.001, 50 |  | [2.1686 0.7051] |
| 모델2\_8 | 112\*112\*16\*3 | /255 | 1e-4 | 3 | RMSprop | 0.5 | 0.001, 50 |  | [2.9251 0.6667] |
| 모델2\_9 | 112\*112\*16\*3 | /255 | 1e-4 | 1 | RMSprop | 0.5 | 0.001, 50 |  | [3.2747 0.3461] |
| 모델2\_10 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.0005, 50 |  | [2.2917 0.6667] |
| 모델2\_11 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.0005, 30 |  | [2.8004 0.4102] |
| 모델2\_12 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.0005, 40 |  | [2.6044 0.641 ] |
|  |  |  |  |  |  |  |  |  |  |
| 900 dataset > 810 train 3 test, early stopping 조건 추가 (현재 loss <= 1.0) | | | | | | | | | |
| 모델3\_1 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.001, 10 |  | [1.8174 0.7692] |
| 모델3\_2 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.001, 5 |  | [2.1377 0.6667] |
| 모델3\_3 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.005, 5 |  | [1.9762 0.7692] |
|  |  |  |  |  |  |  |  |  |  |
| 900 dataset > 810 train 3 test, early stopping 조건 추가 (현재 loss <= 1.5) | | | | | | | | | |
| 모델4\_1 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.001, 10 |  | [2.0494 0.7564] |
| 모델4\_2 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.0005, 10 |  | [2.0662 0.7821] |
| 모델4\_3 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.0005, 5 |  | [2.2775 0.7436] |
| 모델4\_4 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.0005, 20 |  | [1.8769 0.7564] |
| 모델4\_5 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.0005, 15 |  | [1.9514 0.782 ] |
| 모델4\_6 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.005, 10 |  | [2.0581 0.7949] |
| 모델4\_7 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.05, 10 |  | [2.8215 0.6154] |
| 모델4\_8 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.01, 10 |  | [2.7331 0.718 ] |
| 모델4\_9 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | Nadam | 0.5 | 0.005, 10 |  | [2.1566 0.8077] |
| 모델4\_10 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | Nadam | 0.5 | 0.001, 5 |  | [2.3876 0.7821] |
| 모델4\_11 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | Nadam | 0.5 | 0.0001, 10 |  | [2.1326 0.8334] |
|  |  |  |  |  |  |  |  |  |  |
| 데이터 순서 변경 - 이미지를 순서대로 넣기 | | | | | | | | | |
| 모델5\_1 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | Nadam | 0.5 | 0.0001, 10 |  | [2.1938 0.7692] |
| 모델5\_2 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | Adam | 0.5 | 0.0001, 10 |  | [1.8683 0.7308] |
| 모델5\_3 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.0001, 10 |  | [1.7763 0.8077] |
| 모델5\_4 | 112\*112\*16\*1 | /255 | 1e-4 | 2 | RMSprop | 0.5 | 0.0001, 10 |  | [1.6202 0.6923] |
| 모델5\_5 | 112\*112\*16\*1 | /255 | 1e-4 | 2 | Nadam | 0.5 | 0.0001, 10 |  | [1.9594 0.7692] |
| 모델5\_6 | 112\*112\*16\*1 | /255 | 1e-4 | 2 | Adam | 0.5 | 0.0001, 10 |  | [1.876 0.7051] |
| 모델5\_7 | 112\*112\*16\*1 | /255 | 1e-4 | 2 | Adam | 0.5 | 0.005, 10 |  | [1.4709 0.6923] |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| 900 dataset > 899 train 1 test | | | | | | | | | |
| model0 | 112\*112\*16\*3 | /255 | 1e-4 | 1 | RMSprop | 0.5 |  |  | [0.635 0.9231] |
| model1 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 |  |  | [0.454 0.9231] |
| model2 | 112\*112\*16\*3 | /255 | 1e-5 | 1 | RMSprop | 0.5 |  |  | [4.3837 0.5385] |
| model3 | 112\*112\*16\*3 | /255 | 1e-4 | 1 | Adam | 0.5 |  |  | [0.5129 0.9615] |
| model4 | 112\*112\*16\*3 | /255 | 1e-4 | 1 | Nadam | 0.5 |  |  | [0.4378 0.9231] |
| model5 | 112\*112\*16\*3 | /255 | 1e-3 | 1 | Adam | 0.5 |  |  | [3.2592 0.0385] |
| model6 | 112\*112\*16\*3 | /255 | 1e-5 | 1 | Adam | 0.5 |  |  | [3.412 0.6154] |
| model7 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | Adam | 0.5 |  |  | [0.3226 0.9615] |
|  |  |  |  |  |  |  |  |  |  |
| 900 dataset > 810 train 3 test | | | | | | | | | |
| model2\_1 | 112\*112\*16\*3 | /255 | 1e-4 | 1 | RMSprop | 0.5 |  |  | [1.4657 0.8077] |
| model2\_2 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | RMSprop | 0.5 |  |  | [1.4376 0.7692] |
| model2\_3 | 112\*112\*16\*3 | /255 | 1e-4 | 1 | Adam | 0.5 |  |  | [1.225 0.6923] |
| model2\_4 | 112\*112\*16\*3 | /255 | 1e-4 | 2 | Adam | 0.5 |  |  | [1.1747 0.8462] |
| model2\_5 | 112\*112\*16\*3 | /255 | 1e-4 | 3 | Adam | 0.5 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
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