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1 C:\Users\hp\AppData\Local\Programs\Python\Python311\python.exe D:\pythonProject\Face-Recognition_Att_Proj\Face_recog_MTCNN_FACENET\train_v2.py
2 2023-10-09 22:06:50.620877: I tensorflow/core/platform/cpu_feature_guard.cc:182] This TensorFlow binary is optimized to use available CPU instructions in performance-critical operations.
3 To enable the following instructions: SSE SSE2 SSE3 SSE4.1 SSE4.2 AVX AVX2 AVX_VNNI FMA, in other operations, rebuild TensorFlow with the appropriate compiler flags.
4 1/1 [=====] - 0s
  145ms/step
5 1/1 [=====] - 0s
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6 1/1 [=====] - 0s
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84 1/1 [=====] - 0s
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98 1/1 [=====] - 0s
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99 1/1 [=====] - 0s
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100 2023-10-09 22:06:58.929457: W tensorflow/tsl
     /framework/cpu_allocator_impl.cc:83]
     Allocation of 186551200 exceeds 10% of free
     system memory.
101 2023-10-09 22:06:59.033170: W tensorflow/tsl
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101 /framework/cpu_allocator_impl.cc:83]
Allocation of 186551200 exceeds 10% of free
system memory.
102 2023-10-09 22:06:59.033329: W tensorflow/tsl
/framework/cpu_allocator_impl.cc:83]
Allocation of 186551200 exceeds 10% of free
system memory.
103 2023-10-09 22:06:59.352638: W tensorflow/tsl
/framework/cpu_allocator_impl.cc:83]
Allocation of 148125824 exceeds 10% of free
system memory.
104 2023-10-09 22:06:59.398635: W tensorflow/tsl
/framework/cpu_allocator_impl.cc:83]
Allocation of 148125824 exceeds 10% of free
system memory.
105 1/1 [=====] - 1s
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106 1/1 [=====] - 0s
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107 1/1 [=====] - 0s
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108 1/1 [=====] - 0s
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109 1/1 [=====] - 0s
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110 1/1 [=====] - 0s
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113 1/1 [=====] - 0s
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118 1/1 [=====] - 0s
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119 1/1 [=====] - 0s
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120 99/99 [=====] - 1s
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121 4/4 [=====] - 0s
    17ms/step
122 1/1 [=====] - 0s
    70ms/step
123 1/1 [=====] - 1s
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124 1/1 [=====] - 0s
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125 1/1 [=====] - 0s
    135ms/step
126 1/1 [=====] - 0s
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127 1/1 [=====] - 0s
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128 1/1 [=====] - 0s
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131 1/1 [=====] - 0s
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137 1/1 [=====] - 0s
    18ms/step
138 151/151 [=====] -
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139 7/7 [=====] - 0s
    17ms/step
140 1/1 [=====] - 0s
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    16ms/step
404 1/1 [=====] - 0s
    15ms/step
405 1/1 [=====] - 0s
    17ms/step
406 1/1 [=====] - 0s
    15ms/step
407 1/1 [=====] - 0s
    65ms/step
408 1/1 [=====] - 0s
    40ms/step
409 1/1 [=====] - 0s
    29ms/step
410 1/1 [=====] - 0s
    25ms/step
411 1/1 [=====] - 0s
    23ms/step
412 1/1 [=====] - 0s
```

```
412 19ms/step
413 1/1 [=====] - 0s
    16ms/step
414 1/1 [=====] - 0s
    14ms/step
415 1/1 [=====] - 0s
    16ms/step
416 1/1 [=====] - 0s
    21ms/step
417 1/1 [=====] - 0s
    17ms/step
418 5/5 [=====] - 0s
    5ms/step
419 1/1 [=====] - 0s
    29ms/step
420 1/1 [=====] - 0s
    67ms/step
421 1/1 [=====] - 0s
    26ms/step
422 1/1 [=====] - 0s
    23ms/step
423 1/1 [=====] - 0s
    18ms/step
424 1/1 [=====] - 0s
    17ms/step
425 1/1 [=====] - 0s
    16ms/step
426 1/1 [=====] - 0s
    15ms/step
427 1/1 [=====] - 0s
    18ms/step
428 1/1 [=====] - 0s
    19ms/step
429 1/1 [=====] - 0s
    17ms/step
```

```
430 1/1 [=====] - 0s
    19ms/step
431 1/1 [=====] - 0s
    17ms/step
432 1/1 [=====] - 0s
    66ms/step
433 1/1 [=====] - 0s
    26ms/step
434 1/1 [=====] - 0s
    22ms/step
435 1/1 [=====] - 0s
    20ms/step
436 1/1 [=====] - 0s
    18ms/step
437 1/1 [=====] - 0s
    21ms/step
438 1/1 [=====] - 0s
    16ms/step
439 1/1 [=====] - 0s
    17ms/step
440 1/1 [=====] - 0s
    15ms/step
441 1/1 [=====] - 0s
    15ms/step
442 1/1 [=====] - 0s
    17ms/step
443 1/1 [=====] - 0s
    19ms/step
444 1/1 [=====] - 0s
    56ms/step
445 1/1 [=====] - 0s
    26ms/step
446 1/1 [=====] - 0s
    23ms/step
447 1/1 [=====] - 0s
```

```
447 19ms/step
448 1/1 [=====] - 0s
    17ms/step
449 1/1 [=====] - 0s
    16ms/step
450 1/1 [=====] - 0s
    19ms/step
451 1/1 [=====] - 0s
    14ms/step
452 1/1 [=====] - 0s
    14ms/step
453 1/1 [=====] - 0s
    14ms/step
454 1/1 [=====] - 0s
    18ms/step
455 1/1 [=====] - 0s
    21ms/step
456 1/1 [=====] - 0s
    56ms/step
457 1/1 [=====] - 0s
    25ms/step
458 1/1 [=====] - 0s
    21ms/step
459 1/1 [=====] - 0s
    23ms/step
460 1/1 [=====] - 0s
    17ms/step
461 1/1 [=====] - 0s
    14ms/step
462 1/1 [=====] - 0s
    16ms/step
463 1/1 [=====] - 0s
    15ms/step
464 1/1 [=====] - 0s
    20ms/step
```

```
465 1/1 [=====] - 0s  
    14ms/step  
466 1/1 [=====] - 0s  
    17ms/step  
467 1/1 [=====] - 0s  
    18ms/step  
468 1/1 [=====] - 0s  
    52ms/step  
469 1/1 [=====] - 0s  
    26ms/step  
470 1/1 [=====] - 0s  
    22ms/step  
471 1/1 [=====] - 0s  
    18ms/step  
472 1/1 [=====] - 0s  
    17ms/step  
473 1/1 [=====] - 0s  
    23ms/step  
474 1/1 [=====] - 0s  
    17ms/step  
475 1/1 [=====] - 0s  
    16ms/step  
476 1/1 [=====] - 0s  
    16ms/step  
477 1/1 [=====] - 0s  
    17ms/step  
478 1/1 [=====] - 0s  
    18ms/step  
479 1/1 [=====] - 0s  
    21ms/step  
480 1/1 [=====] - 0s  
    55ms/step  
481 1/1 [=====] - 0s  
    25ms/step  
482 1/1 [=====] - 0s
```

```
482 22ms/step
483 1/1 [=====] - 0s
    19ms/step
484 1/1 [=====] - 0s
    16ms/step
485 1/1 [=====] - 0s
    18ms/step
486 1/1 [=====] - 0s
    17ms/step
487 1/1 [=====] - 0s
    17ms/step
488 1/1 [=====] - 0s
    16ms/step
489 1/1 [=====] - 0s
    15ms/step
490 1/1 [=====] - 0s
    15ms/step
491 1/1 [=====] - 0s
    22ms/step
492 1/1 [=====] - 0s
    54ms/step
493 1/1 [=====] - 0s
    51ms/step
494 1/1 [=====] - 0s
    36ms/step
495 1/1 [=====] - 0s
    34ms/step
496 1/1 [=====] - 0s
    24ms/step
497 1/1 [=====] - 0s
    20ms/step
498 1/1 [=====] - 0s
    25ms/step
499 1/1 [=====] - 0s
    18ms/step
```

```
500 1/1 [=====] - 0s
    15ms/step
501 1/1 [=====] - 0s
    16ms/step
502 1/1 [=====] - 0s
    16ms/step
503 1/1 [=====] - 0s
    22ms/step
504 2/2 [=====] - 0s
    6ms/step
505 1/1 [=====] - 0s
    20ms/step
506 1/1 [=====] - 0s
    65ms/step
507 1/1 [=====] - 0s
    25ms/step
508 1/1 [=====] - 0s
    22ms/step
509 1/1 [=====] - 0s
    19ms/step
510 1/1 [=====] - 0s
    18ms/step
511 1/1 [=====] - 0s
    21ms/step
512 1/1 [=====] - 0s
    17ms/step
513 1/1 [=====] - 0s
    16ms/step
514 1/1 [=====] - 0s
    18ms/step
515 1/1 [=====] - 0s
    16ms/step
516 1/1 [=====] - 0s
    18ms/step
517 1/1 [=====] - 0s
```

```
517 19ms/step
518 1/1 [=====] - 0s
58ms/step
519 1/1 [=====] - 0s
29ms/step
520 1/1 [=====] - 0s
23ms/step
521 1/1 [=====] - 0s
19ms/step
522 1/1 [=====] - 0s
19ms/step
523 1/1 [=====] - 0s
18ms/step
524 1/1 [=====] - 0s
21ms/step
525 1/1 [=====] - 0s
17ms/step
526 1/1 [=====] - 0s
17ms/step
527 1/1 [=====] - 0s
17ms/step
528 1/1 [=====] - 0s
17ms/step
529 1/1 [=====] - 0s
23ms/step
530 1/1 [=====] - 0s
52ms/step
531 1/1 [=====] - 0s
24ms/step
532 1/1 [=====] - 0s
22ms/step
533 1/1 [=====] - 0s
23ms/step
534 1/1 [=====] - 0s
19ms/step
```

```
535 1/1 [=====] - 0s
    17ms/step
536 1/1 [=====] - 0s
    14ms/step
537 1/1 [=====] - 0s
    16ms/step
538 1/1 [=====] - 0s
    12ms/step
539 1/1 [=====] - 0s
    21ms/step
540 1/1 [=====] - 0s
    18ms/step
541 1/1 [=====] - 0s
    21ms/step
542 1/1 [=====] - 0s
    56ms/step
543 1/1 [=====] - 0s
    28ms/step
544 1/1 [=====] - 0s
    23ms/step
545 1/1 [=====] - 0s
    20ms/step
546 1/1 [=====] - 0s
    18ms/step
547 1/1 [=====] - 0s
    17ms/step
548 1/1 [=====] - 0s
    19ms/step
549 1/1 [=====] - 0s
    16ms/step
550 1/1 [=====] - 0s
    15ms/step
551 1/1 [=====] - 0s
    17ms/step
552 1/1 [=====] - 0s
```

```
552 17ms/step
553 1/1 [=====] - 0s
22ms/step
554 1/1 [=====] - 0s
58ms/step
555 1/1 [=====] - 0s
26ms/step
556 1/1 [=====] - 0s
24ms/step
557 1/1 [=====] - 0s
21ms/step
558 1/1 [=====] - 0s
17ms/step
559 1/1 [=====] - 0s
17ms/step
560 1/1 [=====] - 0s
16ms/step
561 1/1 [=====] - 0s
17ms/step
562 1/1 [=====] - 0s
16ms/step
563 1/1 [=====] - 0s
16ms/step
564 8/8 [=====] - 0s
7ms/step
565 1/1 [=====] - 0s
25ms/step
566 1/1 [=====] - 0s
58ms/step
567 1/1 [=====] - 0s
42ms/step
568 1/1 [=====] - 0s
31ms/step
569 1/1 [=====] - 0s
25ms/step
```

```
570 1/1 [=====] - 0s
    21ms/step
571 1/1 [=====] - 0s
    21ms/step
572 1/1 [=====] - 0s
    19ms/step
573 1/1 [=====] - 0s
    17ms/step
574 1/1 [=====] - 0s
    14ms/step
575 1/1 [=====] - 0s
    14ms/step
576 1/1 [=====] - 0s
    20ms/step
577 1/1 [=====] - 0s
    16ms/step
578 5/5 [=====] - 0s
    4ms/step
579 1/1 [=====] - 0s
    22ms/step
580 1/1 [=====] - 0s
    61ms/step
581 1/1 [=====] - 0s
    26ms/step
582 1/1 [=====] - 0s
    22ms/step
583 1/1 [=====] - 0s
    20ms/step
584 1/1 [=====] - 0s
    18ms/step
585 1/1 [=====] - 0s
    22ms/step
586 1/1 [=====] - 0s
    18ms/step
587 1/1 [=====] - 0s
```

```
587 17ms/step
588 1/1 [=====] - 0s
    17ms/step
589 1/1 [=====] - 0s
    16ms/step
590 1/1 [=====] - 0s
    21ms/step
591 1/1 [=====] - 0s
    20ms/step
592 1/1 [=====] - 0s
    54ms/step
593 1/1 [=====] - 0s
    25ms/step
594 1/1 [=====] - 0s
    26ms/step
595 1/1 [=====] - 0s
    20ms/step
596 1/1 [=====] - 0s
    18ms/step
597 1/1 [=====] - 0s
    17ms/step
598 1/1 [=====] - 0s
    14ms/step
599 1/1 [=====] - 0s
    19ms/step
600 1/1 [=====] - 0s
    16ms/step
601 1/1 [=====] - 0s
    15ms/step
602 1/1 [=====] - 0s
    17ms/step
603 1/1 [=====] - 0s
    17ms/step
604 1/1 [=====] - 0s
    59ms/step
```

```
605 1/1 [=====] - 0s
    25ms/step
606 1/1 [=====] - 0s
    21ms/step
607 1/1 [=====] - 0s
    19ms/step
608 1/1 [=====] - 0s
    18ms/step
609 1/1 [=====] - 0s
    19ms/step
610 1/1 [=====] - 0s
    18ms/step
611 1/1 [=====] - 0s
    17ms/step
612 1/1 [=====] - 0s
    15ms/step
613 1/1 [=====] - 0s
    13ms/step
614 1/1 [=====] - 0s
    24ms/step
615 1/1 [=====] - 0s
    17ms/step
616 1/1 [=====] - 0s
    56ms/step
617 1/1 [=====] - 0s
    26ms/step
618 1/1 [=====] - 0s
    26ms/step
619 1/1 [=====] - 0s
    20ms/step
620 1/1 [=====] - 0s
    17ms/step
621 1/1 [=====] - 0s
    17ms/step
622 1/1 [=====] - 0s
```

```
622 16ms/step
623 1/1 [=====] - 0s
    20ms/step
624 1/1 [=====] - 0s
    15ms/step
625 1/1 [=====] - 0s
    17ms/step
626 1/1 [=====] - 0s
    18ms/step
627 1/1 [=====] - 0s
    17ms/step
628 1/1 [=====] - 0s
    68ms/step
629 1/1 [=====] - 0s
    27ms/step
630 1/1 [=====] - 0s
    23ms/step
631 1/1 [=====] - 0s
    19ms/step
632 1/1 [=====] - 0s
    16ms/step
633 1/1 [=====] - 0s
    20ms/step
634 1/1 [=====] - 0s
    16ms/step
635 1/1 [=====] - 0s
    16ms/step
636 1/1 [=====] - 0s
    16ms/step
637 1/1 [=====] - 0s
    15ms/step
638 1/1 [=====] - 0s
    20ms/step
639 1/1 [=====] - 0s
    19ms/step
```

```
640 1/1 [=====] - 0s
    58ms/step
641 1/1 [=====] - 0s
    25ms/step
642 1/1 [=====] - 0s
    25ms/step
643 1/1 [=====] - 0s
    20ms/step
644 1/1 [=====] - 0s
    16ms/step
645 1/1 [=====] - 0s
    16ms/step
646 1/1 [=====] - 0s
    17ms/step
647 1/1 [=====] - 0s
    18ms/step
648 1/1 [=====] - 0s
    17ms/step
649 1/1 [=====] - 0s
    16ms/step
650 1/1 [=====] - 0s
    17ms/step
651 1/1 [=====] - 0s
    16ms/step
652 1/1 [=====] - 0s
    60ms/step
653 1/1 [=====] - 0s
    25ms/step
654 1/1 [=====] - 0s
    21ms/step
655 1/1 [=====] - 0s
    18ms/step
656 1/1 [=====] - 0s
    16ms/step
657 1/1 [=====] - 0s
```

```
657 19ms/step
658 1/1 [=====] - 0s
    18ms/step
659 1/1 [=====] - 0s
    16ms/step
660 1/1 [=====] - 0s
    15ms/step
661 1/1 [=====] - 0s
    15ms/step
662 1/1 [=====] - 0s
    21ms/step
663 1/1 [=====] - 0s
    17ms/step
664 1/1 [=====] - 0s
    52ms/step
665 1/1 [=====] - 0s
    25ms/step
666 1/1 [=====] - 0s
    27ms/step
667 1/1 [=====] - 0s
    19ms/step
668 1/1 [=====] - 0s
    17ms/step
669 1/1 [=====] - 0s
    15ms/step
670 1/1 [=====] - 0s
    14ms/step
671 1/1 [=====] - 0s
    20ms/step
672 1/1 [=====] - 0s
    17ms/step
673 1/1 [=====] - 0s
    16ms/step
674 1/1 [=====] - 0s
    17ms/step
```

```
675 1/1 [=====] - 0s
    17ms/step
676 1/1 [=====] - 0s
    60ms/step
677 1/1 [=====] - 0s
    27ms/step
678 1/1 [=====] - 0s
    20ms/step
679 1/1 [=====] - 0s
    19ms/step
680 1/1 [=====] - 0s
    17ms/step
681 1/1 [=====] - 0s
    19ms/step
682 1/1 [=====] - 0s
    17ms/step
683 1/1 [=====] - 0s
    16ms/step
684 1/1 [=====] - 0s
    14ms/step
685 1/1 [=====] - 0s
    15ms/step
686 1/1 [=====] - 0s
    20ms/step
687 1/1 [=====] - 0s
    18ms/step
688 1/1 [=====] - 0s
    54ms/step
689 1/1 [=====] - 0s
    29ms/step
690 1/1 [=====] - 0s
    26ms/step
691 1/1 [=====] - 0s
    19ms/step
692 1/1 [=====] - 0s
```

```
692 19ms/step
693 1/1 [=====] - 0s
    17ms/step
694 1/1 [=====] - 0s
    17ms/step
695 1/1 [=====] - 0s
    17ms/step
696 1/1 [=====] - 0s
    18ms/step
697 1/1 [=====] - 0s
    16ms/step
698 1/1 [=====] - 0s
    17ms/step
699 1/1 [=====] - 0s
    19ms/step
700 1/1 [=====] - 0s
    54ms/step
701 1/1 [=====] - 0s
    69ms/step
702 1/1 [=====] - 0s
    50ms/step
703 1/1 [=====] - 0s
    32ms/step
704 1/1 [=====] - 0s
    31ms/step
705 1/1 [=====] - 0s
    23ms/step
706 1/1 [=====] - 0s
    20ms/step
707 1/1 [=====] - 0s
    19ms/step
708 1/1 [=====] - 0s
    21ms/step
709 1/1 [=====] - 0s
    20ms/step
```

```
710 1/1 [=====] - 0s
    16ms/step
711 1/1 [=====] - 0s
    19ms/step
712 1/1 [=====] - 0s
    23ms/step
713 8/8 [=====] - 0s
    7ms/step
714 1/1 [=====] - 0s
    34ms/step
715 1/1 [=====] - 0s
    65ms/step
716 1/1 [=====] - 0s
    59ms/step
717 1/1 [=====] - 0s
    39ms/step
718 1/1 [=====] - 0s
    36ms/step
719 1/1 [=====] - 0s
    30ms/step
720 1/1 [=====] - 0s
    24ms/step
721 1/1 [=====] - 0s
    19ms/step
722 1/1 [=====] - 0s
    17ms/step
723 1/1 [=====] - 0s
    18ms/step
724 1/1 [=====] - 0s
    17ms/step
725 1/1 [=====] - 0s
    16ms/step
726 1/1 [=====] - 0s
    14ms/step
727 5/5 [=====] - 0s
```

```
727 6ms/step
728 1/1 [=====] - 0s
    24ms/step
729 1/1 [=====] - 0s
    70ms/step
730 1/1 [=====] - 0s
    27ms/step
731 1/1 [=====] - 0s
    22ms/step
732 1/1 [=====] - 0s
    20ms/step
733 1/1 [=====] - 0s
    16ms/step
734 1/1 [=====] - 0s
    17ms/step
735 1/1 [=====] - 0s
    18ms/step
736 1/1 [=====] - 0s
    18ms/step
737 1/1 [=====] - 0s
    15ms/step
738 1/1 [=====] - 0s
    15ms/step
739 1/1 [=====] - 0s
    17ms/step
740 1/1 [=====] - 0s
    21ms/step
741 1/1 [=====] - 0s
    61ms/step
742 1/1 [=====] - 0s
    28ms/step
743 1/1 [=====] - 0s
    23ms/step
744 1/1 [=====] - 0s
    22ms/step
```

```
745 1/1 [=====] - 0s
    18ms/step
746 1/1 [=====] - 0s
    17ms/step
747 1/1 [=====] - 0s
    21ms/step
748 1/1 [=====] - 0s
    24ms/step
749 1/1 [=====] - 0s
    18ms/step
750 1/1 [=====] - 0s
    18ms/step
751 1/1 [=====] - 0s
    19ms/step
752 1/1 [=====] - 0s
    19ms/step
753 1/1 [=====] - 0s
    76ms/step
754 1/1 [=====] - 0s
    27ms/step
755 1/1 [=====] - 0s
    24ms/step
756 1/1 [=====] - 0s
    21ms/step
757 1/1 [=====] - 0s
    19ms/step
758 1/1 [=====] - 0s
    18ms/step
759 1/1 [=====] - 0s
    19ms/step
760 1/1 [=====] - 0s
    18ms/step
761 1/1 [=====] - 0s
    15ms/step
762 1/1 [=====] - 0s
```

```
762 16ms/step
763 1/1 [=====] - 0s
    20ms/step
764 1/1 [=====] - 0s
    21ms/step
765 1/1 [=====] - 0s
    66ms/step
766 1/1 [=====] - 0s
    27ms/step
767 1/1 [=====] - 0s
    23ms/step
768 1/1 [=====] - 0s
    21ms/step
769 1/1 [=====] - 0s
    19ms/step
770 1/1 [=====] - 0s
    21ms/step
771 1/1 [=====] - 0s
    18ms/step
772 1/1 [=====] - 0s
    17ms/step
773 1/1 [=====] - 0s
    14ms/step
774 1/1 [=====] - 0s
    15ms/step
775 1/1 [=====] - 0s
    22ms/step
776 1/1 [=====] - 0s
    23ms/step
777 1/1 [=====] - 0s
    69ms/step
778 1/1 [=====] - 0s
    32ms/step
779 1/1 [=====] - 0s
    22ms/step
```

```
780 1/1 [=====] - 0s
    20ms/step
781 1/1 [=====] - 0s
    19ms/step
782 1/1 [=====] - 0s
    17ms/step
783 1/1 [=====] - 0s
    24ms/step
784 1/1 [=====] - 0s
    18ms/step
785 1/1 [=====] - 0s
    14ms/step
786 1/1 [=====] - 0s
    16ms/step
787 1/1 [=====] - 0s
    18ms/step
788 1/1 [=====] - 0s
    27ms/step
789 1/1 [=====] - 0s
    59ms/step
790 1/1 [=====] - 0s
    26ms/step
791 1/1 [=====] - 0s
    23ms/step
792 1/1 [=====] - 0s
    22ms/step
793 1/1 [=====] - 0s
    18ms/step
794 1/1 [=====] - 0s
    19ms/step
795 1/1 [=====] - 0s
    16ms/step
796 1/1 [=====] - 0s
    16ms/step
797 1/1 [=====] - 0s
```

```
797 16ms/step
798 1/1 [=====] - 0s
    17ms/step
799 1/1 [=====] - 0s
    20ms/step
800 1/1 [=====] - 0s
    16ms/step
801 1/1 [=====] - 0s
    59ms/step
802 1/1 [=====] - 0s
    26ms/step
803 1/1 [=====] - 0s
    23ms/step
804 1/1 [=====] - 0s
    20ms/step
805 1/1 [=====] - 0s
    18ms/step
806 1/1 [=====] - 0s
    17ms/step
807 1/1 [=====] - 0s
    17ms/step
808 1/1 [=====] - 0s
    17ms/step
809 1/1 [=====] - 0s
    16ms/step
810 1/1 [=====] - 0s
    19ms/step
811 1/1 [=====] - 0s
    21ms/step
812 1/1 [=====] - 0s
    17ms/step
813 1/1 [=====] - 0s
    55ms/step
814 1/1 [=====] - 0s
    25ms/step
```

```
815 1/1 [=====] - 0s
    20ms/step
816 1/1 [=====] - 0s
    20ms/step
817 1/1 [=====] - 0s
    18ms/step
818 1/1 [=====] - 0s
    19ms/step
819 1/1 [=====] - 0s
    16ms/step
820 1/1 [=====] - 0s
    14ms/step
821 1/1 [=====] - 0s
    16ms/step
822 1/1 [=====] - 0s
    15ms/step
823 1/1 [=====] - 0s
    24ms/step
824 1/1 [=====] - 0s
    20ms/step
825 1/1 [=====] - 0s
    58ms/step
826 1/1 [=====] - 0s
    26ms/step
827 1/1 [=====] - 0s
    23ms/step
828 1/1 [=====] - 0s
    19ms/step
829 1/1 [=====] - 0s
    16ms/step
830 1/1 [=====] - 0s
    17ms/step
831 1/1 [=====] - 0s
    20ms/step
832 1/1 [=====] - 0s
```

```
832 17ms/step
833 1/1 [=====] - 0s
    18ms/step
834 1/1 [=====] - 0s
    15ms/step
835 1/1 [=====] - 0s
    21ms/step
836 1/1 [=====] - 0s
    21ms/step
837 1/1 [=====] - 0s
    60ms/step
838 1/1 [=====] - 0s
    26ms/step
839 1/1 [=====] - 0s
    23ms/step
840 1/1 [=====] - 0s
    21ms/step
841 1/1 [=====] - 0s
    17ms/step
842 1/1 [=====] - 0s
    17ms/step
843 1/1 [=====] - 0s
    14ms/step
844 1/1 [=====] - 0s
    19ms/step
845 1/1 [=====] - 0s
    16ms/step
846 1/1 [=====] - 0s
    14ms/step
847 1/1 [=====] - 0s
    19ms/step
848 1/1 [=====] - 0s
    20ms/step
849 1/1 [=====] - 0s
    68ms/step
```

```
850 1/1 [=====] - 0s
    56ms/step
851 1/1 [=====] - 0s
    39ms/step
852 1/1 [=====] - 0s
    32ms/step
853 1/1 [=====] - 0s
    26ms/step
854 1/1 [=====] - 0s
    21ms/step
855 1/1 [=====] - 0s
    22ms/step
856 1/1 [=====] - 0s
    20ms/step
857 1/1 [=====] - 0s
    18ms/step
858 1/1 [=====] - 0s
    17ms/step
859 1/1 [=====] - 0s
    17ms/step
860 1/1 [=====] - 0s
    15ms/step
861 4/4 [=====] - 0s
    5ms/step
862 1/1 [=====] - 0s
    27ms/step
863 1/1 [=====] - 0s
    58ms/step
864 1/1 [=====] - 0s
    56ms/step
865 1/1 [=====] - 0s
    38ms/step
866 1/1 [=====] - 0s
    31ms/step
867 1/1 [=====] - 0s
```

```
867 26ms/step
868 1/1 [=====] - 0s
    25ms/step
869 1/1 [=====] - 0s
    19ms/step
870 1/1 [=====] - 0s
    17ms/step
871 1/1 [=====] - 0s
    16ms/step
872 1/1 [=====] - 0s
    17ms/step
873 1/1 [=====] - 0s
    19ms/step
874 1/1 [=====] - 0s
    16ms/step
875 4/4 [=====] - 0s
    5ms/step
876 1/1 [=====] - 0s
    24ms/step
877 1/1 [=====] - 0s
    64ms/step
878 1/1 [=====] - 0s
    28ms/step
879 1/1 [=====] - 0s
    23ms/step
880 1/1 [=====] - 0s
    17ms/step
881 1/1 [=====] - 0s
    16ms/step
882 1/1 [=====] - 0s
    20ms/step
883 1/1 [=====] - 0s
    16ms/step
884 1/1 [=====] - 0s
    19ms/step
```

```
885 1/1 [=====] - 0s
    15ms/step
886 1/1 [=====] - 0s
    13ms/step
887 1/1 [=====] - 0s
    20ms/step
888 1/1 [=====] - 0s
    19ms/step
889 1/1 [=====] - 0s
    57ms/step
890 1/1 [=====] - 0s
    24ms/step
891 1/1 [=====] - 0s
    23ms/step
892 1/1 [=====] - 0s
    19ms/step
893 1/1 [=====] - 0s
    18ms/step
894 1/1 [=====] - 0s
    17ms/step
895 1/1 [=====] - 0s
    21ms/step
896 1/1 [=====] - 0s
    17ms/step
897 1/1 [=====] - 0s
    18ms/step
898 1/1 [=====] - 0s
    14ms/step
899 1/1 [=====] - 0s
    19ms/step
900 1/1 [=====] - 0s
    19ms/step
901 1/1 [=====] - 0s
    56ms/step
902 Epoch 1/100: Accuracy = 100.00%
```

903	Epoch	2/100:	Accuracy	=	100.00%
904	Epoch	3/100:	Accuracy	=	100.00%
905	Epoch	4/100:	Accuracy	=	100.00%
906	Epoch	5/100:	Accuracy	=	100.00%
907	Epoch	6/100:	Accuracy	=	100.00%
908	Epoch	7/100:	Accuracy	=	100.00%
909	Epoch	8/100:	Accuracy	=	100.00%
910	Epoch	9/100:	Accuracy	=	100.00%
911	Epoch	10/100:	Accuracy	=	100.00%
912	Epoch	11/100:	Accuracy	=	100.00%
913	Epoch	12/100:	Accuracy	=	100.00%
914	Epoch	13/100:	Accuracy	=	100.00%
915	Epoch	14/100:	Accuracy	=	100.00%
916	Epoch	15/100:	Accuracy	=	100.00%
917	Epoch	16/100:	Accuracy	=	100.00%
918	Epoch	17/100:	Accuracy	=	100.00%
919	Epoch	18/100:	Accuracy	=	100.00%
920	Epoch	19/100:	Accuracy	=	100.00%
921	Epoch	20/100:	Accuracy	=	100.00%
922	Epoch	21/100:	Accuracy	=	100.00%
923	Epoch	22/100:	Accuracy	=	100.00%
924	Epoch	23/100:	Accuracy	=	100.00%
925	Epoch	24/100:	Accuracy	=	100.00%
926	Epoch	25/100:	Accuracy	=	100.00%
927	Epoch	26/100:	Accuracy	=	100.00%
928	Epoch	27/100:	Accuracy	=	100.00%
929	Epoch	28/100:	Accuracy	=	100.00%
930	Epoch	29/100:	Accuracy	=	100.00%
931	Epoch	30/100:	Accuracy	=	100.00%
932	Epoch	31/100:	Accuracy	=	100.00%
933	Epoch	32/100:	Accuracy	=	100.00%
934	Epoch	33/100:	Accuracy	=	100.00%
935	Epoch	34/100:	Accuracy	=	100.00%
936	Epoch	35/100:	Accuracy	=	100.00%
937	Epoch	36/100:	Accuracy	=	100.00%

938	Epoch	37/100:	Accuracy	=	100.00%
939	Epoch	38/100:	Accuracy	=	100.00%
940	Epoch	39/100:	Accuracy	=	100.00%
941	Epoch	40/100:	Accuracy	=	100.00%
942	Epoch	41/100:	Accuracy	=	100.00%
943	Epoch	42/100:	Accuracy	=	100.00%
944	Epoch	43/100:	Accuracy	=	100.00%
945	Epoch	44/100:	Accuracy	=	100.00%
946	Epoch	45/100:	Accuracy	=	100.00%
947	Epoch	46/100:	Accuracy	=	100.00%
948	Epoch	47/100:	Accuracy	=	100.00%
949	Epoch	48/100:	Accuracy	=	100.00%
950	Epoch	49/100:	Accuracy	=	100.00%
951	Epoch	50/100:	Accuracy	=	100.00%
952	Epoch	51/100:	Accuracy	=	100.00%
953	Epoch	52/100:	Accuracy	=	100.00%
954	Epoch	53/100:	Accuracy	=	100.00%
955	Epoch	54/100:	Accuracy	=	100.00%
956	Epoch	55/100:	Accuracy	=	100.00%
957	Epoch	56/100:	Accuracy	=	100.00%
958	Epoch	57/100:	Accuracy	=	100.00%
959	Epoch	58/100:	Accuracy	=	100.00%
960	Epoch	59/100:	Accuracy	=	100.00%
961	Epoch	60/100:	Accuracy	=	100.00%
962	Epoch	61/100:	Accuracy	=	100.00%
963	Epoch	62/100:	Accuracy	=	100.00%
964	Epoch	63/100:	Accuracy	=	100.00%
965	Epoch	64/100:	Accuracy	=	100.00%
966	Epoch	65/100:	Accuracy	=	100.00%
967	Epoch	66/100:	Accuracy	=	100.00%
968	Epoch	67/100:	Accuracy	=	100.00%
969	Epoch	68/100:	Accuracy	=	100.00%
970	Epoch	69/100:	Accuracy	=	100.00%
971	Epoch	70/100:	Accuracy	=	100.00%
972	Epoch	71/100:	Accuracy	=	100.00%

```
973 Epoch 72/100: Accuracy = 100.00%
974 Epoch 73/100: Accuracy = 100.00%
975 Epoch 74/100: Accuracy = 100.00%
976 Epoch 75/100: Accuracy = 100.00%
977 Epoch 76/100: Accuracy = 100.00%
978 Epoch 77/100: Accuracy = 100.00%
979 Epoch 78/100: Accuracy = 100.00%
980 Epoch 79/100: Accuracy = 100.00%
981 Epoch 80/100: Accuracy = 100.00%
982 Epoch 81/100: Accuracy = 100.00%
983 Epoch 82/100: Accuracy = 100.00%
984 Epoch 83/100: Accuracy = 100.00%
985 Epoch 84/100: Accuracy = 100.00%
986 Epoch 85/100: Accuracy = 100.00%
987 Epoch 86/100: Accuracy = 100.00%
988 Epoch 87/100: Accuracy = 100.00%
989 Epoch 88/100: Accuracy = 100.00%
990 Epoch 89/100: Accuracy = 100.00%
991 Epoch 90/100: Accuracy = 100.00%
992 Epoch 91/100: Accuracy = 100.00%
993 Epoch 92/100: Accuracy = 100.00%
994 Epoch 93/100: Accuracy = 100.00%
995 Epoch 94/100: Accuracy = 100.00%
996 Epoch 95/100: Accuracy = 100.00%
997 Epoch 96/100: Accuracy = 100.00%
998 Epoch 97/100: Accuracy = 100.00%
999 Epoch 98/100: Accuracy = 100.00%
1000 Epoch 99/100: Accuracy = 100.00%
1001 Epoch 100/100: Accuracy = 100.00%
1002
1003 Process finished with exit code 0
1004
```