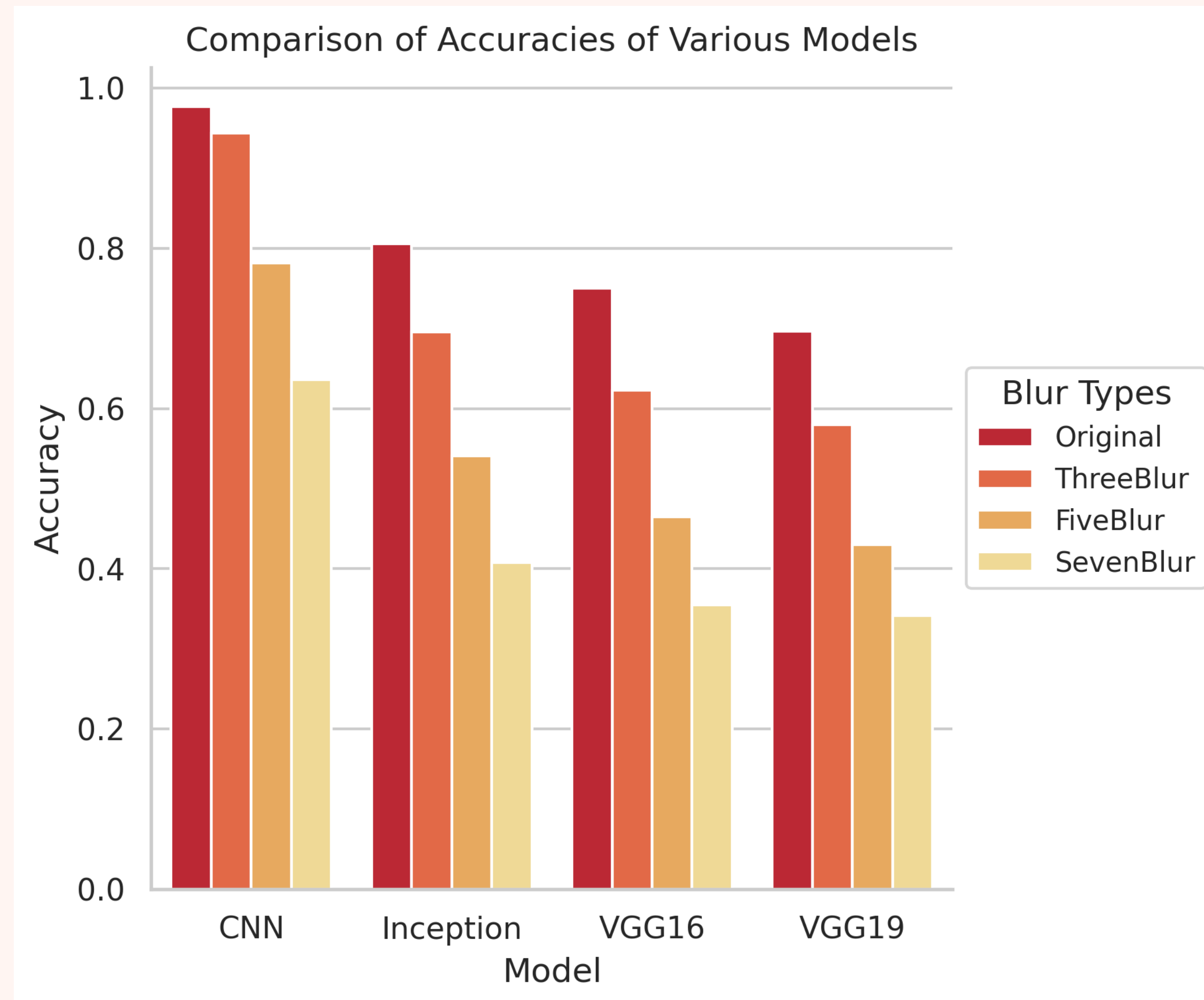

PROJECT RESULTS

AMANDEEP SINGH

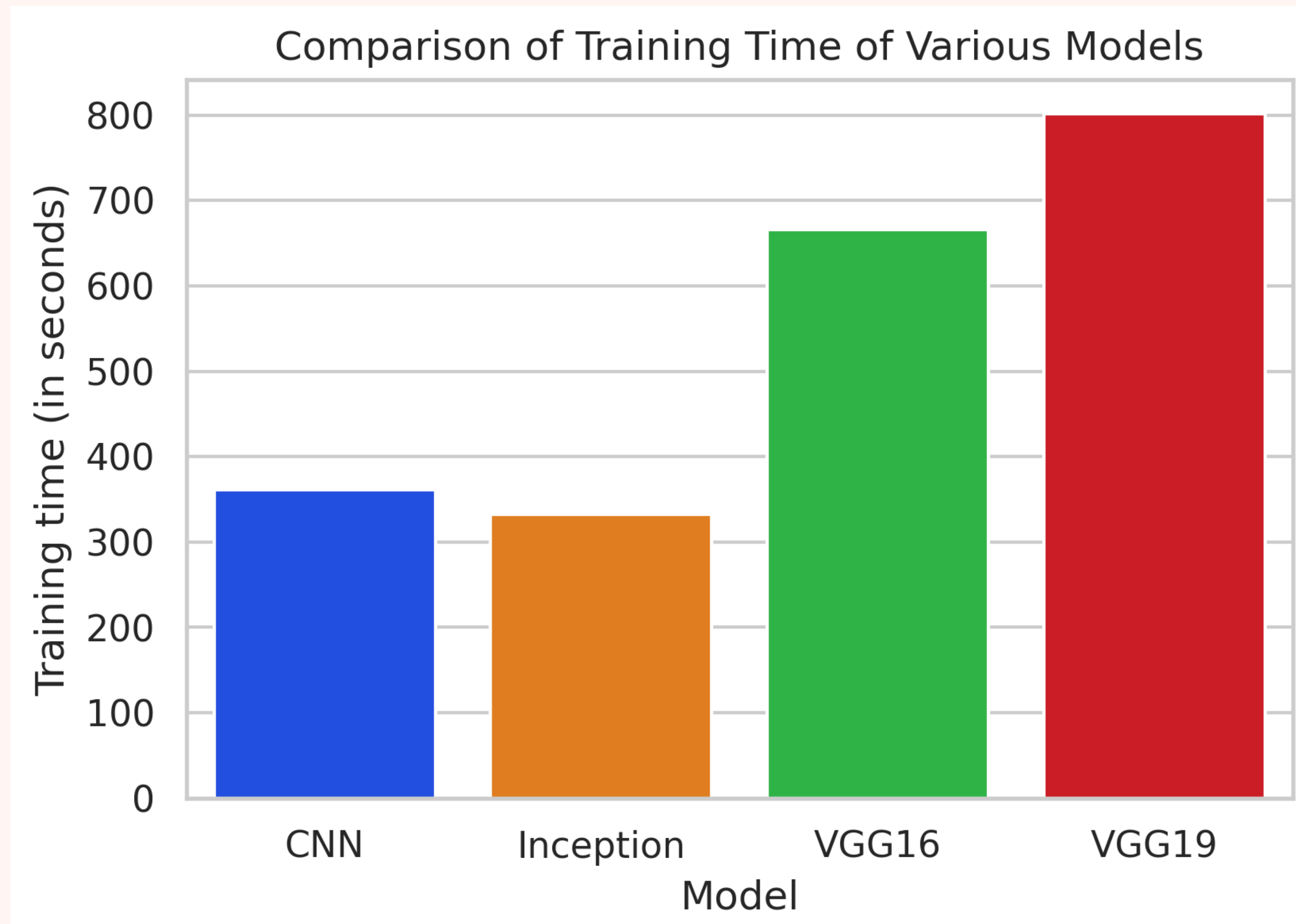
Four models were implemented:

- 1. Self-designed, simple, CNN**
 - 2. InceptionV3 (pre-trained TL model)**
 - 3. VGG16 (pre-trained TL model)**
 - 4. VGG19 (pre-trained TL model)**
-

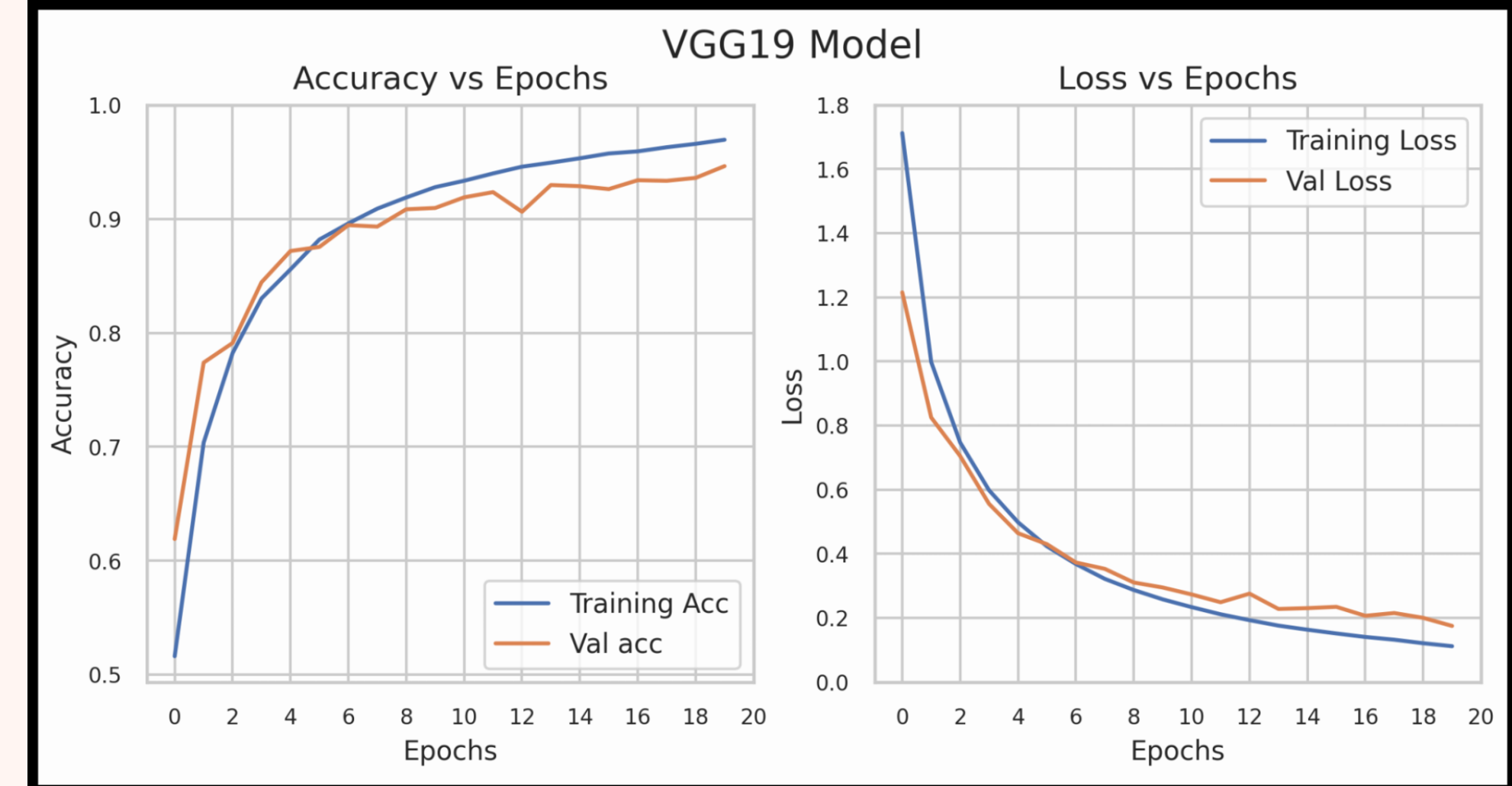
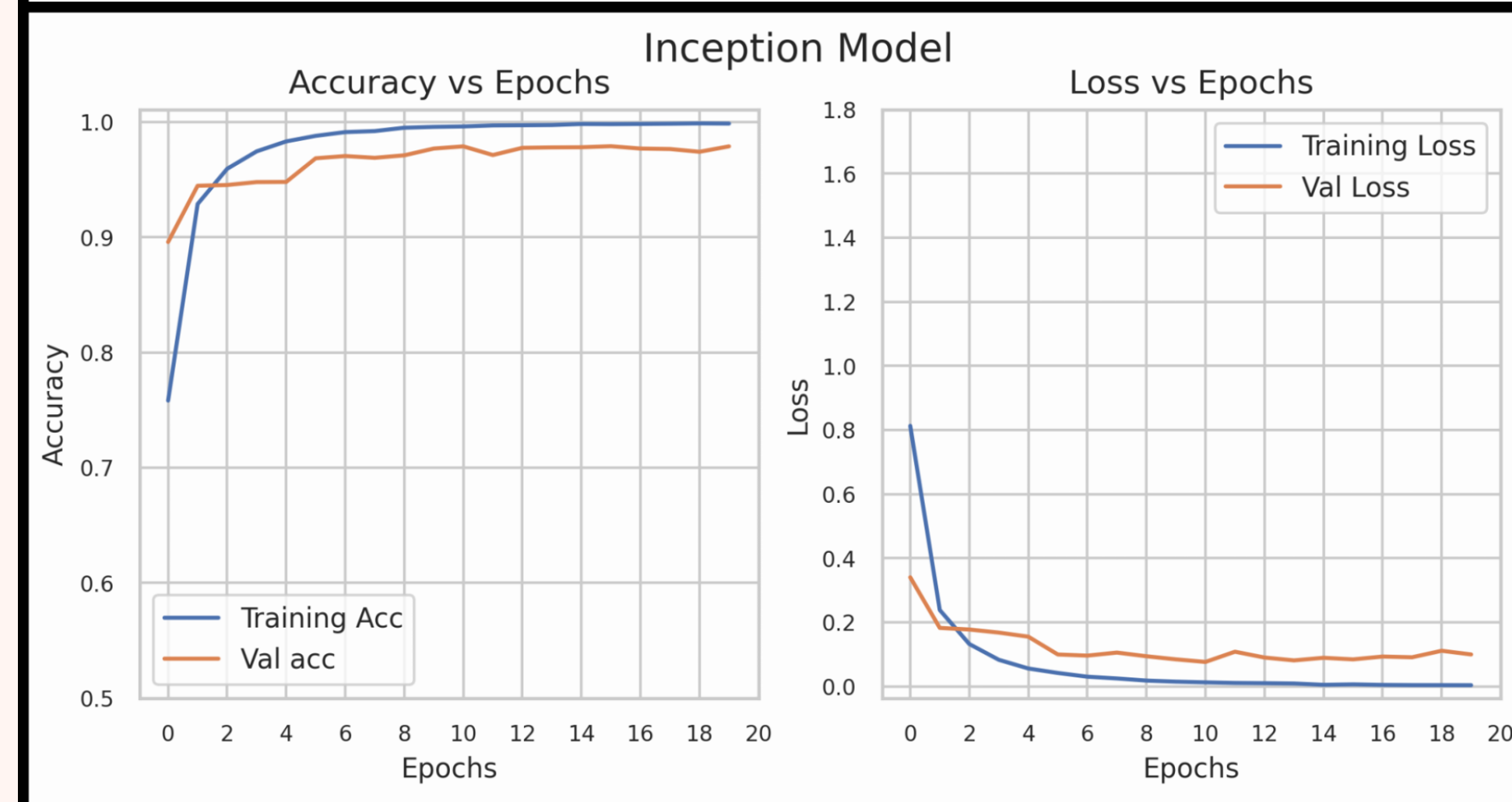
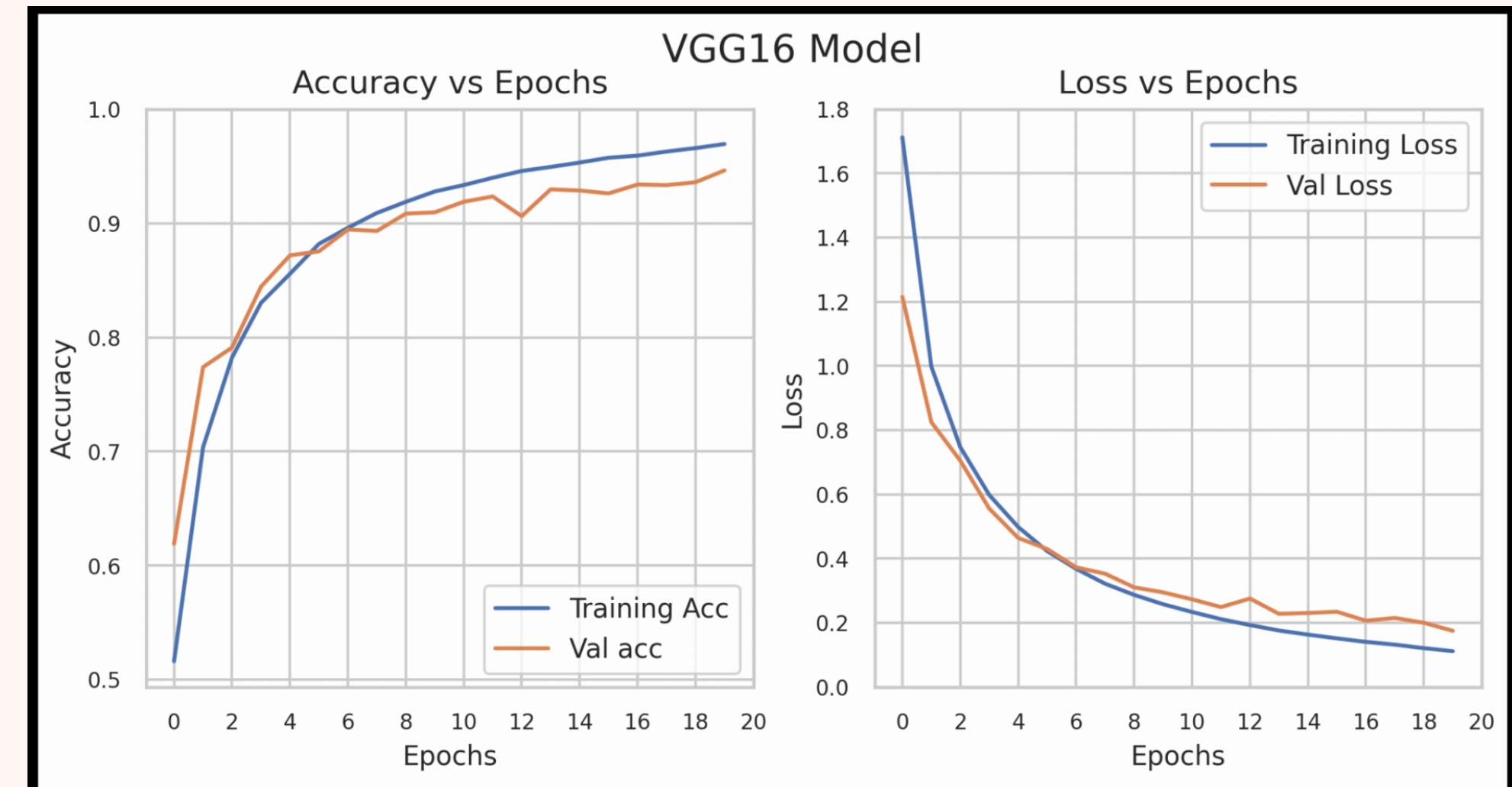
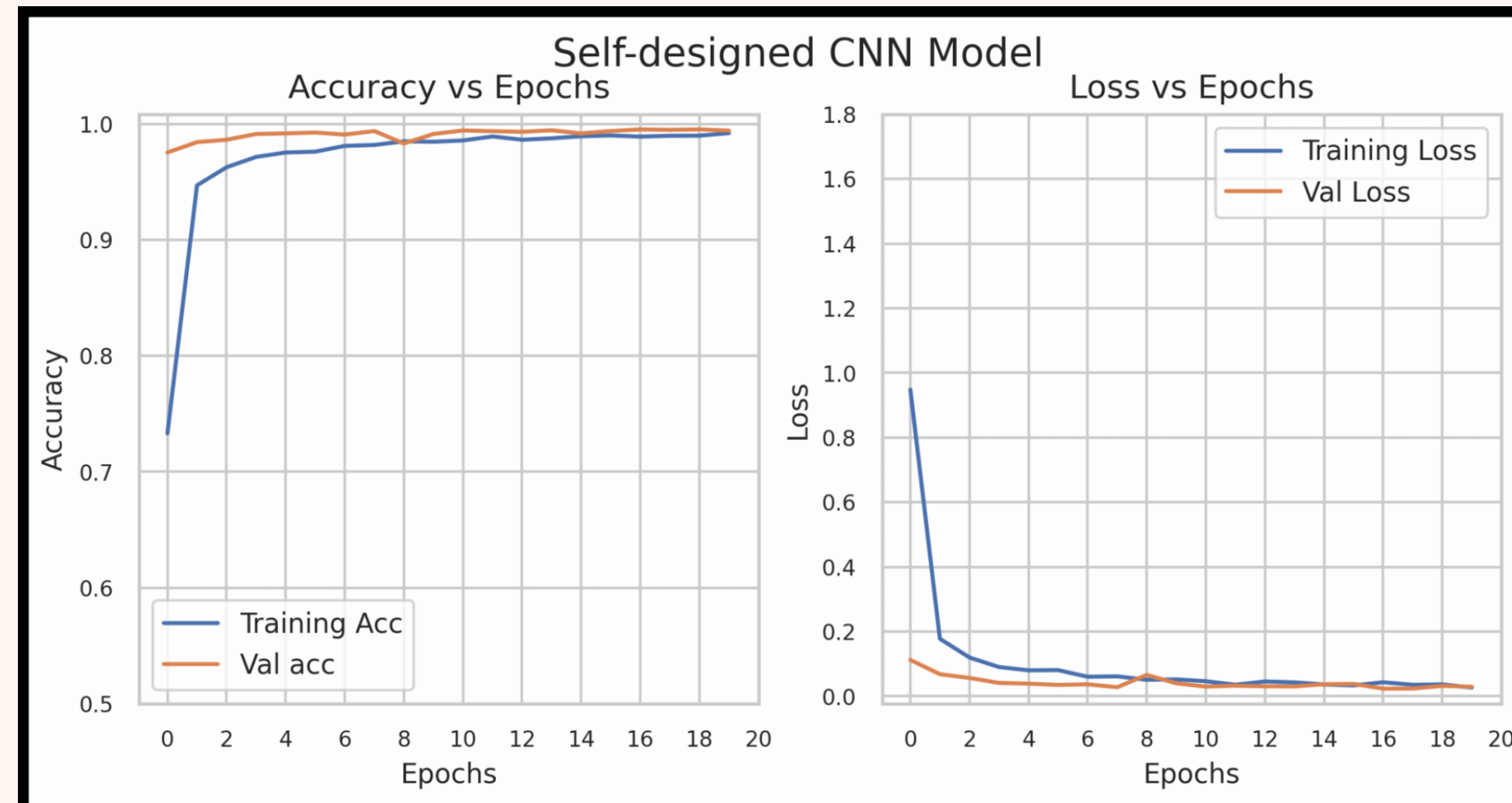
ACCURACY SCORES COMPARISON



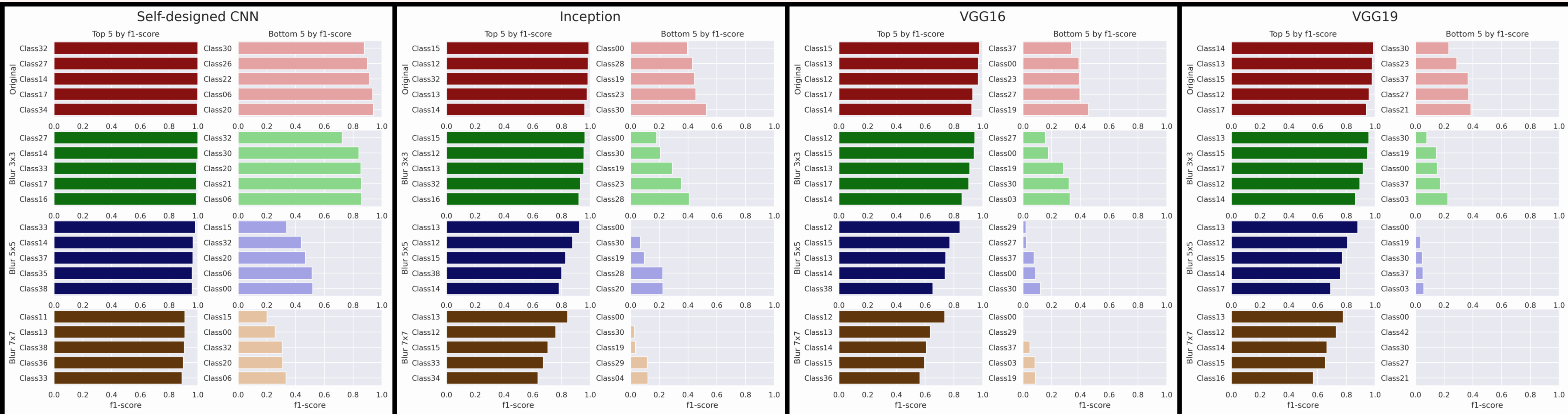
TRAINING TIME COMPARISON



ACCURACY/LOSS VS EPOCHS COMPARISON



TOP/BOTTOM FIVE CLASS-WISE F1-SCORE COMPARISON



| Models | | Accuracy (%) |
|-------------------|----------|--------------|
| Self-Designed CNN | Original | 97.71 |
| | Blur 3x3 | 94.38 |
| | Blur 5x5 | 78.21 |
| | Blur 7x7 | 63.62 |
| InceptionV3 | Original | 80.59 |
| | Blur 3x3 | 69.54 |
| | Blur 5x5 | 54.07 |
| | Blur 7x7 | 40.79 |
| VGG16 | Original | 75.02 |
| | Blur 3x3 | 62.27 |
| | Blur 5x5 | 46.51 |
| | Blur 7x7 | 35.47 |
| VGG19 | Original | 69.66 |
| | Blur 3x3 | 57.97 |
| | Blur 5x5 | 43.01 |
| | Blur 7x7 | 34.15 |

| Models | Training Time |
|-------------|---------------|
| CNN | 361.44 s |
| InceptionV3 | 332.37 s |
| VGG16 | 665.41 s |
| VGG19 | 801.50 s |